

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

2800 BERLIN TURNPIKE, P.O. BOX 317546 NEWINGTON, CONNECTICUT 06131-7546



Phone: 860-594-3128

October 28, 2015

Subject: Project No. 103-247

Project No. 103-247; Construction of Occum Maintenance Facility, in the Town of Norwich.

NOTICE TO CONTRACTORS:

This is to notify all concerned and especially the prospective bidders that the bid opening for the subject project is still scheduled for November 25, 2015 at 2:00 P.M. in the Conference Room of the Department of Transportation Administration Building, 2800 Berlin Turnpike, Newington, Connecticut.

<u>Addendum No. 1</u> is attached and can also be obtained on the Statewide Contracting Portal at http://www.biznet.ct.gov/scp_search/BidResults.aspx?groupid=64

This addendum is necessary to revised contract documents.

Pre-Bid Questions and Answers: Questions pertaining to DOT advertised construction projects must be presented through the CTDOT Pre-Bid Q and A Website. The Department cannot guarantee that all questions will be answered prior to the bid date. PLEASE NOTE - at 12:01 am, the day before the bid, the subject project(s) being bid will be removed from the Q and A Website, Projects Advertised Section, at which time questions can no longer be submitted through the Q and A Website. At this time, the Q and A for those projects will be considered final, unless otherwise stated and/or the bid is postponed to a future date and time to allow for further questions and answers to be posted.

Philip J. Melchionne
For: Gregory D. Straka
Contracts Manager

Division of Contracts Administration

OCTOBER 21, 2015

OCCUM MAINTENANCE FACILITY

STATE PROJECT NO. 103-247 TOWN OF OCCUM (NORWICH)

ADDENDUM NO. 1

PERMITS

The following permits are hereby added to the Contract:

- ARMY CORPS OF ENGINEERS AUTOMATIC
- FLOODPLAIN MANAGEMENT CERTIFICATION
- INLAND WETLANDS RESOURCES CONSTRUCTION ACTIVITIES (GENERAL)

The Bid Proposal Form is not affected by these changes.

There will be no change in the number of calendar days due to this Addendum.

The foregoing is hereby made a part of the contract.



Appendix 1A: Category 1 Certification Form (Required for all Inland Projects in Connecticut)

of Engineers ®

Submit this form before work commences to the following addresses:

New England District U.S. Army Corps of Engineers, Permits & Enforcement Branch B (CT), 696 Virginia Road, Concord, MA 01742-2751

> Connecticut Department of Energy & Environmental Protection, CT DEEP, Inland Water Resources Division, 79 Elm Street, Hartford, CT 06106-5127 (not required if work is done within exterior boundaries of Mashantucket)

Permittee Name & Address: Connecticu	It Department of Transportation
Phone number & Email address: 860.594.	2931 mark.w.alexander@ct.gov
Work Location/Address: 2800 Berlin Tpl	k. Newington, CT 06131
Latitude/Longitude coordinates: N 41°35'1	7", W 72°02'56"
Waterway name:	
Contractor Name & Address: To be det	ermined by Low Bid process
Proposed Work Dates: Start: 3/2016	Finish: 7/2017
Work will be done within Inland Water	s & Wetlands under the following categories - refer
to Appendix 1 (check all that apply):	
× 1.A. New Fill and/or Fill Associate	ed with Excavation
1.B. Stream Bank Stabilization	
	sting Authorized or Grandfathered Fill.
	Vaterway impact: 1170 sf and or 490 linear feet
Brief Project Description This project consists	of the replacement of the existing maintenance
	25 Taftville Occum Road in the Occum section of Norwich.
	anent wetland impact and 1,170sf of temporary
watercourse impact (below onw). Project purpose: Replace a functionally obsole	
	ted to impacts to inland waters or wetlands drained,
dredged, flooded, cleared or degraded resul	ting from a single and complete project. See General
Condition 3.	\cap
Does your project include any of these second	ary impacts? Y/N If yes, please describe them:
	icates that you accept and agree to comply with the
terms, eligibility criteria, and general co Permit.	onditions of Category 1 of this Connecticut General
Daymittee Signatures Thomas	1 mouran Date: 10-16-2014

79 Elm Street • Hartford, CT 06106-5127

www.ct.gov/deep

Affirmative Action/Equal Opportunity Employer

FLOOD MANAGEMENT

Connecticut Department of Transportation 2800 Berlin Turnpike P.O. Box 317546 Newington, CT 06131-7546

Attn: Thomas J. Maziarz, Bureau Chief, Policy & Planning

Re: Approval of Certification & Exemption Request

FM-201503316

Occum Maintenance Facility

Norwich, CT

Dear Mr. Maziarz:

The Inland Water Resources Division of the Department of Energy & Environmental Protection has reviewed the flood management certification application and exemption request prepared by John W. Waleszczyk of Connecticut Department of Transportation, and signed by Thomas J. Maziarz of the Connecticut Department of Transportation ("Certifying Agency").

The certification and exemption request submitted on May 12, 2015 states that the proposed activity has been designed in compliance with the requirements of Section 25-68d(b) of the Connecticut General Statutes (CGS) and Section 25-68h-1 through 25-68h-3 of the Regulations of Connecticut State Agencies (RCSA) with the exception of Section 25-68(h)(2), Subsection(d)(1) of the RCSA.

Specifically, an exemption is requested from the provisions of Section 25-68h-2(d)(1) of the Regulations of Connecticut State Agencies (RCSA). RCSA Section 25-68h-2(d)(1) prohibits the storage of materials that are buoyant, hazardous, flammable, explosive, soluble, expansive radioactive or which could be injurious to human, animal or plant life is prohibited below the elevation of the base flood for a critical activity.

The project consists of the replacement of underground fuel storage tanks and installation of an aboveground diesel fuel storage tank located in the City of Norwich, as shown on plans entitled, "Occum Maintenance Facilities State Project # 103-247," submitted with the application on May 12, 2015, and prepared by the Connecticut Department of Transportation Office of Engineering. The project is located within the 500-yr FEMA floodplain of Shetucket River.

The agency has determined that while the fuel tanks for the emergency generators are not elevated above the 500-year flood elevation, it is not possible to do so without compromising access to them during emergency events. In addition, the agency has determined that the activity is in the public interest, will not injure persons or damage property in the area of such activity or critical activity, and complies with the provisions of the National Flood Insurance Program.

Connecticut Department of Transportation Occum Maintenance Facility, Norwich, CT FM-201503316 Page 2 of 3

Therefore, in accordance with CGS Section 25-68d(b) & (d), your request for approval of the above referenced certification and exemption request from RCSA Section 25-68h-2(d)(1) hereby is granted with the following conditions:

Special Conditions:

None

Operating Conditions:

- 1. This approval shall expire ten years after issuance or if the construction of any structures or facilities authorized herein is not commenced within three years of issuance of this approval.
- 2. The Certifying Agency may not make any alterations, except de minimis alterations, to any structure, facility, or activity authorized by this certification unless the Certifying Agency applies for and receives a modification of this certification. A de minimis alteration means a change in the design or operation of the authorized permit that does not increase its adverse environmental or other regulatory impacts.
- 3. In constructing or maintaining any structure or facility or conducting any activity authorized herein, or in removing any such structure or facility, the Certifying Agency shall employ best management practices to control storm water discharges, to prevent erosion and sedimentation, and to otherwise prevent pollution of wetlands and other waters of the State. The Certifying Agency shall immediately inform the Commissioner of any adverse impact or hazard to the environment which occurs or is likely to occur as the direct result of the construction, maintenance, or conduct of structures, facilities, or activities authorized herein. Best Management Practices include, but are not limited, to practices identified in the Connecticut Guidelines for Soil Erosion and Sediment Control as revised, 2004 Connecticut Stormwater Quality Manual, Department of Transportation's ConnDOT Drainage Manual as revised, and the Department of Transportation Standard Specifications as revised.
- 4. All temporary structures, cofferdams, and fill shall not impede the movement of flood flows and shall be removed at the completion of their use. The design of such temporary structure, cofferdams and fill shall be based on the DOT Drainage Manual, where applicable. All temporary and permanent fill shall be clean and free of stumps, rubbish, hazardous and toxic material.
- 5. The Certifying Agency shall cause equipment and materials to be removed from the floodplain during periods when flood warnings have been issued or are anticipated by a responsible federal, state or local agency. It shall be the Certifying Agency's responsibility to obtain such warnings when flooding is anticipated.

This authorization is subject to and does not derogate any present or future property rights or other rights or powers of the State of Connecticut, conveys no property rights in real estate or material nor any exclusive privileges, and is further subject to any and all public and private rights and to any federal, state, or local laws or regulations pertinent to the property or activity affected thereby. No

Connecticut Department of Transportation Occum Maintenance Facility, Norwich, CT FM-201503316 Page 3 of 3

revisions or alterations to the approved plans are allowed without first obtaining written approval from this Division of such alterations.

If there are any questions, contact Krystyna Krudysz of the Inland Water Resources Division at 860-418-5942.

Sincerely,

October 9, 2015

Date

Michael Sullivan

Deputy Commissioner

CAC/KK

cc: Mark W. Alexander, Transportation Assistant Planning Director Svetlana Kaminsky, DOT



Connecticut Department of Energy & Environmental Protection

	CPPU USE ONLY
App #:	
Doc #:	
Check #:	

Permit Application Transmittal Form

Please complete this transmittal form in accordance with the instructions in order to ensure the proper handling of your application(s) and the associated fee(s). Print legibly or type.

Part I: Applicant Information:

- *If an applicant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, applicant's name shall be stated exactly as it is registered with the Secretary of State.
- If an applicant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

Applicant: Connecticut Department of Transportation						
Mailing Address: 2800 Berlin Turnpike, P.O. Box 317546						
City/Town: Newington	State: CT	Zip Code: 06131-7546				
Business Phone: 860-594-2931 ext.:						
Contact Person: Mark W. Alexander Phone: 860-594-2931 ext.						
E-Mail: Mark.W.Alexander@ct.gov						
Applicant (check one): ☐ individual ☐ *business entity ☐ federal agency ☐ state agency ☐ municipality ☐ tribal *If a business entity, list type (e.g., corporation, limited partnership, etc.): ☐ Check if any co-applicants. If so, attach additional sheet(s) with the required information as supplied above.						
Please provide the following information to be used for billing purposes only, if different:						
Company/Individual Name:						
Mailing Address:						
City/Town:	State:	Zip Code:				
Contact Person:	Phone:	ext.				

Part II: Project Information

Brief Description of Project: (Example: Development of a 50 slip marina on Long Island Sound)							
Occum Maintenance Facility, Occum							
Location (City/Tow	n): Occum - State P	roject No. 103-247	7				
Other Project Related Permits (not included with this form):							
Permit Description	Issuing Authority	Submittal Date	Issuance Date	Denial Date	Permit #		
Discharge of Stormwater	DEEP	TBD					
Gen. Permit for Water Resource Const.Activities	DEEP	TBD					

Part III: Individual Permit Application and Fee Information

New, Mod. or Renew	Individual Permit Applications	Initial Fees	No. of Permits Applied For	Total Initial Fees	Original + Required Copies
	AIR EMISSIONS				
	New Source Review	\$940.00			1+0
	Revision minor mod Title V Operating Permits	nono			1+0
	Revision minor mod non-minor mod	none			1+0
	Title IV	none			1 + 0
	Clean Air Interstate Rule (CAIR)	none			1 + 0
	WATER DISCHARGES				
	To Groundwater	\$1300.00			1+1
	To Sanitary Sewer (POTW)	\$1300.00			1+1
	To Surface Water (NPDES)	\$1300.00			1+1
	INLAND WATER RESOURCES-				
	Dam Safety	none			1 + 2
NEW	Flood Management Certification	none	1	\$0	1+1
	Inland Wetlands and Watercourses	none			
	Inland 401 Water Quality Certification	none			1 + 5
	FERC- Hydropower Projects- 401 Water Quality Certification	none			1 +1
	Water Diversion	*			1 + 5
	OFFICE OF LONG ISLAND SOUND PROGRAMS				
	Certificate of Permission	\$375.00			1 + 2
	Coastal 401 Water Quality Certification	none			1 + 2
	Structures and Dredging/and Fill/Tidal Wetlands	\$660.00			1 + 2
	WASTE MANAGEMENT				
	Aerial Pesticide Application	*			1 + 2
	Aquatic Pesticide Application	\$200.00			1 + 0
	CGS Section 22a-454 Waste Facilities	*			1+1
	Disruption of a Solid Waste Disposal Area	\$0			1+1
	Hazardous Waste Treatment, Storage and Disposal Facilities	*			1 + 1
	Marine Terminal License	\$375.00			1+0
	Stewardship	\$4000.00			1+1
	Solid Waste Facilities	*			1+1
	Waste Transportation	*			1+0
		Subtotal =	1	\$0	
	GENERAL PERMITS and AUTHORIZATIONS Subtot	als Page 3 &4 ➡			
	Enter subtotals from Part IV, pages 3 - 6 of this form Subt	otals Page 5 🖶			
Subtotal					
	т	OTAL →	1	\$0	
	Indicate whether municipal discount or state Less Appli	waiver applies. cable Discount	→		
		AMOUNT REMI	TTED ➡	\$0	
Check	# Check or money order sho "Department of Energy an				4

[★] See fee schedule on individual application.

Part IV: General Permit Registrations and Requests for Other Authorizations Application and Fee Information

✓	General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fees	Original + Required Copies
	AIR EMISSIONS				
	Limit Potential to Emit from Major Stationary Sources of Air Pollution	\$2760.00			1 + 0
	Diagnostic and Therapeutic X-Ray Devices (Medical X-Ray) Registration	\$190.00/Xray device			1 + 0
	Radioactive Materials and Industrial Device Registration (Ionizing Radiation)	\$200.00			1+0
	Emergency/Temporary Authorization	**			**
	License Revocation Request	\$0			**
	Other, (please specify):				
	WATER DISCHARGES				
	Boiler Blowdown Wastewater	Expired- wa	stewater disch	arge authorized und	er MISC GP
	Categorical Industry User to a POTW Discharges > 10,000 gpd Discharges < 10,0000 gpd	\$6250.00 \$3125.00			1+0
	Domestic Sewage	\$625.00			1 + 0
	Food Preparation Establishment Wastewater		No Re	gistration	
	Food Processing Wastewater	\$500.00			1 + 0
	Groundwater Remediation Wastewater to a Sanitary Sewer	\$500.00			1+0
	Groundwater Remediation Wastewater to a Surface Water Registration Only Approval of Registration by DEEP	\$625.00 \$1250.00			1 + 0
	Hydrostatic Pressure Testing Wastewater Registration Only Approval of Registration by DEEP (natural gas pipelines)	\$625.00 \$1250.00			1 + 0
	Miscellaneous Discharges of Sewer Compatible Wastewater Registration Only Approval of Registration by DEEP	\$500.00 \$1000.00			1 + 0
	Nitrogen Discharges		No Re	gistration	
	Non-Contact Cooling and Heat Pump Water (Minor)	\$625.00			1 + 0
	Photographic Processing Wastewater (Minor)	Expired- wastewater discharge authorized under MISC G		er MISC GP	
	Point Source Discharges from Application of Pesticides	\$200.00			1 + 0
	Printing & Publishing Wastewater (Minor) Flow < 40 gpd	\$500.00 \$100.00			1+0
	Stormwater Associated with Commercial Activities	\$300.00			1 + 0
	Stormwater Associated with Industrial Activities <50 employees–see general permit for additional requirements >50 employees–see general permit for additional requirements	\$500.00 \$1000.00			1 + 0
	Stormwater & Dewatering Wastewaters-Construction Activities	*			1 + 0
	Stormwater from Small Municipal Separate Storm Sewer Systems (MS4)	\$250.00			1 + 0

[★] See fee schedule on registration/application.

^{**} Contact the specific permit program for this information. (Contact numbers are provided in the instructions)

Part IV: General Permit Registrations and Requests for Other Authorizations (continued)

WATER DISCHARGES (continued)				
☐ Subsurface Sewage Disposal Systems Serving Existing Facilities	**		1+0	
☐ Swimming Pool Wastewater - Public Pools and Contractors	\$500.00		1 + 0	
☐ Tumbling or Cleaning of Parts Wastewater (Minor)	☐ Tumbling or Cleaning of Parts Wastewater (Minor) Expired- wastewater discharge authorized under MISC GP			
Vehicle Maintenance Wastewater ☐ Registration Only ☐ Approval of Registration by DEEP	\$625.00 \$1250.00		1+0	
☐ Water Treatment Wastewater	\$625.00		1+0	
☐ Emergency/Temporary Authorization - Discharge to POTW	\$1500.00		1 + 0	
☐ Emergency/Temporary Authorization - Discharge to Surface Water	\$1500.00		1 + 0	
☐ Emergency/Temporary Authorization - Discharge to Groundwater	\$1500.00		1+0	
Other, (please specify):				
Note: Carry subtotals over to Part III, page 2 of this form.	ıbtotal 🖶			

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Contact the specific permit program for this information. (Contact numbers are provided in the instructions)

[★] See fee schedule on registration/application.

Part IV: General Permit Registrations and Requests for Other Authorizations (continued)

✓	General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fee	Original + Required Copies
	AQUIFER PROTECTION PROGRAM				
	Registration for Regulated Activities	\$625.00			1 + 0
	Permit Application to Add a Regulated Activity	\$1250.00			1 + 0
	Exemption Application from Registration	\$1250.00			1 + 0
	INLAND WATER RESOURCES				
	Diversion of Remediation Groundwater		No Re	gistration	
	Diversion of Water for Consumptive Use: Reauthorization Categories	\$1000.00			1 + 2
	Diversion of Water for Consumptive Use: Authorization Required	\$2500.00			1 + 4
	Diversion of Water for Consumptive Use: Filing Only	\$1500.00			1 + 4
	Programmatic General Permit	*			1 +3
	Water Resource Construction Activities	*			1 +0
	Emergency/Temporary Authorization	**			**
	Notice of High Hazard Dam or a Significant Hazard Dam	\$0			1 +0
	Other, (please specify):				
	OFFICE OF LONG ISLAND SOUND PROGRAMS				
	4/40 Docks	\$700.00			1+1
	Beach Grading	\$100.00			1+1
	Buoys or Markers		No Re	gistration	
	Coastal Remedial Activities Required by Order	\$700.00			1+1
	Dock Reconstruction	\$300.00			1+1
	Harbor Moorings		No Re	gistration	
	Maintenance of Catch Basins and Tide Gates		No Re	gistration	
	Marina and Mooring Field Reconfiguration	\$700.00			1+1
	Minor Seawall Repair		No Re	gistration	
	Non-harbor Moorings	\$100.00			1+1
	Osprey Platforms and Perch Poles	none			1 + 1
	Pump-out Facilities (no fee for Clean Vessel Act grant recipients)	\$100.00			1+1
	Programmatic General Permit	*			1+1
	Removal of Derelict Structures	\$100.00			1+1
	Residential Flood Hazard Mitigation	\$100.00			1+1
	Swim Floats	\$100.00			1+1
	Emergency/Temporary Authorization	**			**
	Other, (please specify):				
N	ote: Carry subtotals over to Part III, page 2 of this form. Sub	ototal =			

See fee schedule on registration/application.

Contact the specific permit program for this information.

(Contact numbers are provided in the instructions)

Part IV: General Permit Registrations and Requests for Other Authorizations (continued)

✓ General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fee	Original + Required Copies	
WASTE MANAGEMENT					
Addition of Grass Clippings at Registered Leaf Composting Facilities	\$500.00			1+0	
☐ Beneficial Use Determination	*				
Certain Recycling Facilities:					
☐ Drop-site Recycling Facility	\$200.00			1 + 0	
☐ Limited Processing Recycling Facility	\$500.00			1+0	
☐ Recyclables Transfer Facility	\$500.00			1 + 0	
Single Item Recycling Facility	\$500.00			1 + 0	
Collection and Storage of Post Consumer Paint	\$0				
Contaminated Soil and/or Staging Management (Staging/Transfer) Registration Only Approval of Registration by DEEP Renewals	\$250.00 \$1500.00 \$750.00			1 + 0 1 + 0	
☐ Connecticut Solid Waste Demonstration Project	\$1000.00			1 + 0	
☐ Disassembling Used Electronics	\$2000.00			1 + 0	
Leaf Composting Facility	none			1+1	
☐ Municipal Transfer Station	\$800.00			1+1	
One Day Collection of Certain Wastes and Household Hazardous Waste	\$1000.00			1 + 0	
☐ Sheet leaf Composting Notification	\$0			**	
Special Waste Authorization Landfill or RRF Disposal Asbestos Disposal homeowner	\$660.00 \$300.00 \$0			1+0	
☐ Storage and Processing of Asphalt Roofing Shingle Waste	\$2500.00			1+0	
Storage and Processing of Scrap Tires for Beneficial Use	\$1250.00			1 + 0	
☐ Emergency/Temporary Authorization	**			**	
Other, (please specify):					
REMEDIATION					
☐ In Situ Groundwater Remediation: Enhance Aerobic Biodegradation	*			1 + 2	
☐ In Situ Groundwater Remediation: Chemical Oxidation	\$500.00			1 + 0	
☐ Emergency/Temporary Authorization	*			**	
Note: Carry subtotals over to Part III, page 2 of this form. Subtotal →					

[★]See fee schedule on registration/application.

(Contact numbers are provided in the instructions)

Affirmative Action, Equal Employment Opportunity and Americans with Disabilities

The Connecticut Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer that is committed to complying with the requirements of the Americans with Disabilities Act (ADA). Please contact us at (860) 418-5910 or deep.accommodations@ct.gov if you: have a disability and need a communication aid or service; have limited proficiency in English and may need information in another language; or if you wish to file an ADA or Title VI discrimination complaint.

^{★★} Contact the specific permit program for this information.



Permit Application for Programs Administered by the Inland Water Resources Division

Please complete this application form in accordance with the instructions (DEP-IWRD-INST-100) in order to ensure the proper handling of your application. Print or type unless otherwise noted. You must submit the *Permit Application Transmittal Form* (DEP-APP-001) and the initial fee along with this form.

DEP USE ONLY
DEI OOL ONE!

Part I: Application Type

Check the appropriate box identifying the application type.

This application is for (check one): A new application A renewal of an existing permit A modification of an existing permit	Please identify any previous or existing permit/authorization/registration number in the space provided. Existing permit/authorization/registration number:
	Expiration Date:

Part II: Permit Type and Fee Information

Please note: effective August 21, 2003, the application fees for the programs administered by the Inland Water Resources Division have increased as listed in the following table. The fee for municipalities is 50% of the listed rates.

Type of Permit (check <i>all</i> that apply):		Fee to submit with application:
	Inland Wetlands & Watercourses CGS Sec. 22a-36 et seq.	none
	Dam Construction CGS Sec. 22a-403	none
	401 Water Quality Certificate 33 U.S.C. 1341	none
\boxtimes	Flood Management Certification CGS Sec. 25-68(b) - (h)	none
Stre	am Channel Encroachment CGS Sec. 22a-342	
	No change in grade and no construction of above-ground structures A change in grade and no construction of above-ground structures A change in grade and above-ground structures or buildings	\$470.00 \$940.00 \$4,000.00
Wate	er Diversion: Consumptive Use CGS Sec. 22a-372(e)	
	Withdrawal > 0.05 and < 0.5 mgd Withdrawal \geq 0.5 and < 2.0 mgd Withdrawal \geq 2.0 mgd	\$2,050.00 \$4,000.00 \$6,250.00
Wate	er Diversion: Nonconsumptive Use CGS Sec. 22a-372(e)	
	Watershed < 0.5 sq mi Watershed \geq 0.5 sq mi and < 2.0 sq mi Watershed \geq 2.0 sq mi	\$2,050.00 \$4,000.00 \$6,250.00

Part III: Applicant Information

1.	Fill in the name of the applicant(s) as indicated on the <i>Permit Application Transmittal Form</i> (DEP-APP-001):				
	Applicant: Connecticut Department of Transportation				
	Phone: 860-594-2931	ext.	Fax: 860-594-3028		
	Check here if there are co-applicants. If so, label and a information to this sheet.	attach additional	sheet(s) with the required		
2.	Applicant's interest in property at which the proposed activity	y is to be located	l:		
	□ easement holder □ operator □ other (specify):			
3.	List primary contact for departmental correspondence and in	nquiries, if differe	ent than the applicant.		
	Name: Connecticut Department of Transportation				
	Mailing Address: 2800 Berlin Turnpike, P.O. Box 317546				
	City/Town: Newington	State: CT	Zip Code: 06131-7546		
	Business Phone: 860-594-2931	ext.	Fax: 860-594-3028		
	Contact Person: Mark W. Alexander	Title: Assistan	nt Director		
4.	List attorney or other representative, if applicable:				
	Firm Name:				
	Mailing Address:				
	City/Town:	State:	Zip Code:		
	Business Phone:	ext.	Fax:		
	Attorney:				
5.	Facility or Property Owner, if different than the applicant:				
	Name:				
	Mailing Address:				
	City/Town:	State:	Zip Code:		
	Business Phone:	ext.	Fax:		
	Contact Person:	Title:			
	Home address of owner (for Inland Wetlands applications o	nly):			
	Mailing Address:				
	City/Town:	State:	Zip Code:		
	Home Phone:				

Part III: Applicant Information (continued)

6.	List any engineer(s) or other consultant(s) employed or retadesigning or constructing the activity. Check here if adaptach them to this sheet.		
	Name:		
	Mailing Address:		
	City/Town:	State:	Zip Code:
	Business Phone:	ext.	Fax:
	Contact Person:	Title:	
	Service Provided:		

Part IV: Site Information

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1.	Sit	e Location:
	a.	Name of facility, if applicable: Occum Maintenance Facility
		Street Address or Description of Location: 125 Taftville Occum Road
		City/Town: Occum State: CT Zip Code: 06360
		Project No., if applicable: 103-247
	b.	Tax Assessor's Reference: Map Block Lot
		(Assessor's reference is not required if requester is an agency of the State of Connecticut.)
	c.	Latitude and Longitude of the approximate "center of the site" in degrees, minutes, and seconds:
		Latitude: 41^-35'-17" Longitude: 72^-02'-56"
		Method of determination (check one):
		☐ GPS ☐ USGS Map ☐ Other (please specify): Google Earth
		If a USGS Map was used, provide the quadrangle name:
	d.	Drainage Basin number(s) wherein the proposed activity will take place: 3800
	e.	Flood Insurance Rate Map Panel Number: 09011C0208G
		Date of the map referenced: 7-18-2011
	f.	If applying for a SCEL permit, identify the property wherein the proposed activity will take place by indicating the following:
		SCEL Map number(s):
		Property Identifier:
		Date of the map referenced:
2.		DASTAL BOUNDARY: Is the activity which is the subject of this application located within the coastal undary as delineated on DEP approved coastal boundary maps? ☐ Yes ☒ No
		es, and this application is for a new permit or for a modification of an existing permit, you must submit a astal Consistency Review Form (DEP-APP-004) with your application as Attachment P.
		ormation on the coastal boundary is available at the local town hall or on the "Coastal Boundary Map" ailable at DEP Maps and Publications (860-424-3555).

Part IV: Site Information (continued)

3.	ENDANGERED OR THREATENED SPECIES: Is the project site located within an area identified as a habitat for endangered, threatened or special concern species as identified on the "State and Federal Listed Species and Natural Communities Map"?
	If yes, complete and submit a <i>Connecticut Natural Diversity Data Base</i> (CT NDDB) <i>Review Request Form</i> (DEP-APP-007) to the address specified on the form. Please note NDDB review generally takes 4 to 6 weeks and may require additional documentation from the applicant. DEP strongly recommends that applicants complete this process before submitting the subject application.
	When submitting this application form, include copies of any correspondence to and from the NDDB, including copies of the completed <i>CT NDDB Review Request Form</i> , as Attachment K (Environmental Report) or in Attachment Q if no environmental report is required.
	For more information visit the DEP website at www.ct.gov/dep/endangeredspecies (Review/Data Requests) or call the NDDB at 860-424-3011.
4.	AQUIFER PROTECTION AREAS: Is the site located within a town required to establish Aquifer Protection Areas, as defined in section 22a-354a through 354bb of the General Statutes (CGS)?
	☐ Yes No
	If yes, is the site within an area identified on a Level A or Level B map? ☐ Yes ☐ No
	To view the applicable list of towns and maps visit the DEP website at www.ct.gov/dep/aquiferprotection
	To speak with someone about the Aquifer Protection Areas, call 860-424-3020.
5.	CONSERVATION OR PRESERVATION RESTRICTION: Is the property subject to a conservation or preservation restriction? \(\subseteq \text{Yes} \subseteq \text{No} \)
	If Yes, proof of written notice of this application to the holder of such restriction or a letter from the holder of such restriction verifying that this application is in compliance with the terms of the restriction, must be submitted as Attachment Q.
6.	Other Permits: List any previous federal, state or local permits or certificates that have already been issued for the site or for the proposed activity:
	Type or Nature of Permit
Par	t V: Supporting Documents
	use check the attachments submitted as verification that <i>all</i> applicable attachments have been submitted with
this a part <i>Tran</i>	application form. When submitting any supporting documents, please label the documents as indicated in this (e.g., Attachment A, etc.) and be sure to include the applicant's name as indicated on the <i>Permit Application as mittal Form</i> . The specific information required in each attachment is described in the <i>Instructions for appleting A Permit Application for Inland Water Resources Division Activities</i> (DEP-IWRD-INST-100).
\boxtimes	Attachment A: Executive Summary
	·
	Attachment B: An 8 1/2" x 11" copy of a United States Geological Survey (USGS) Topographic Quadrangle Map (scale: 1:24,000) with the regulated activity or project site outlined or pinpointed, as appropriate.
	Attachment C: Documentation Form for: Inland Wetlands and Watercourses Permit, Stream Channel

Encroachment Line Permit, and 401 Water Quality Certification (DEP-IWRD-APP-101)

Part V: Supporting Documents (continued)

	Attachment D:	Documentation Form for Water Diversion Permit (DEP-IWRD-APP-102)		
	Attachment E:	Documentation Form for a Dam Construction Permit (DEP-IWRD-APP-103)		
	Attachment F:	Documentation Form for Flood Management Certification (DEP-IWRD-APP-104) (State Agencies Only)		
\boxtimes	Attachment G:	Plan Sheets and Drawings		
	Attachment H:	Engineering Documentation		
		Part 1: Engineering Report Checklist (DEP-IWRD-APP-105A) and an Engineering Report		
		Part 2: Hydrologic and Hydraulic Consistency Worksheet (DEP-IWRD-APP-105B)		
		Section I: Floodplain Management		
		Section II: Stormwater Management		
		For state agencies only:		
		Section III: State Grants and Loans		
		Section IV: Disposal of State Land		
\boxtimes	Attachment I:	Flood Contingency Plan		
	Attachment J:	Soil Scientist Report (not required for Flood Management Certification)		
	Attachment K:	Environmental Report (not required for Flood Management Certification)		
	Attachment L:	Mitigation Report - wetlands and watercourses, fish and wildlife (not required for Flood Management Certification)		
	Attachment M:	Alternatives Assessment (not required for Flood Management Certification)		
	Attachment N:	Applicant Compliance Information Form (DEP-APP-002) (not required for Flood Management Certification or 401 Water Quality Certification Approvals)		
	Attachment O:	Applicant Background Information Form (DEP-APP-008) (not required for Flood Management Certification)		
	Attachment P:	Coastal Consistency Review Form (DEP-APP-004) (if applicable)		
	Attachment Q:	Other Information: any other information the applicant deems relevant or is required by DEP.		
Nur	mber of Copies of	Application:		
Sub of p	omit one original on the hotocopies of all	of all application forms, certifications, reports and supporting documents and the number such materials as noted on the <i>Permit Application Transmittal Form</i> . When applying for t, you should submit the original and no more than six copies.		

DEP-IWRD-APP-100 5 of 6 Rev. 10/01/09

Part VI: Application Certification

The applicant and all individuals responsible for actually preparing the application or supporting documentation must sign this part. An application will be considered insufficient unless all required signatures are provided. You must include signatures of any person preparing any report or parts thereof filed in support of this application (i.e., professional engineers, surveyors, soil scientists, biologists, environmental and other consultants, etc.).

"I have personally examined and am familiar with the informat attachments thereto, and I certify that based on reasonable in individuals responsible for obtaining the information, the subm to the best of my knowledge and belief.	vestigation, including my inquiry of the
I understand that a false statement in the submitted informatio accordance with Section 22a-6 of the General Statutes, pursuand in accordance with any other applicable statute.	
I certify that this application is on complete and accurate forms alteration of the text.	s as prescribed by the commissioner without
I certify that I will comply with all notice requirements as listed	in Section 22a-6g of the General Statutes."
Thomas of mising	5-11-2015
Signature of Applicant	Date
Thomas J. Maziarz	Bureau Chief, Policy & Planning
Name of Applicant (print or type)	Title (if applicable)
Signature of Brong Will different than above)	4/27/15
Signature of Freparer (if different than above)	Date
John W. Waleszczyk	Trans. Supervising Engineer
Name of Preparer (print or type)	Title (if applicable)
☐ Check here if additional signatures are required.	
If so, please reproduce this sheet and attach signed copi	es to this sheet.
Name of Preparer (print or type) Check here if additional signatures are required.	,

Reminder: After submitting this application to DEP, except in the case of a Flood Management Certification, you must publish a notice of the application immediately and submit a certified copy of this published notice to DEP. See "Notice of Permit Application" section in the instructions (DEP-IWRD-INST-100).

List the name of the newspaper the Notice of Permit Application will be published in:

Note: Please submit the *Permit Application Transmittal Form*, Application Form, Fee, and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT DEPARTMENT OF ENVIRONMENTAL PROTECTION 79 ELM STREET HARTFORD, CT 06106-5127

Natural Diversity Data Base Lebanon Areas

NORWICH, CT

June 2014

State and Federal Listed Species & Significant Natural Communities



NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDB) from a number of data sources. Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDDB along with the required maps and information. More detailed instructions are provided with the request form on our website.

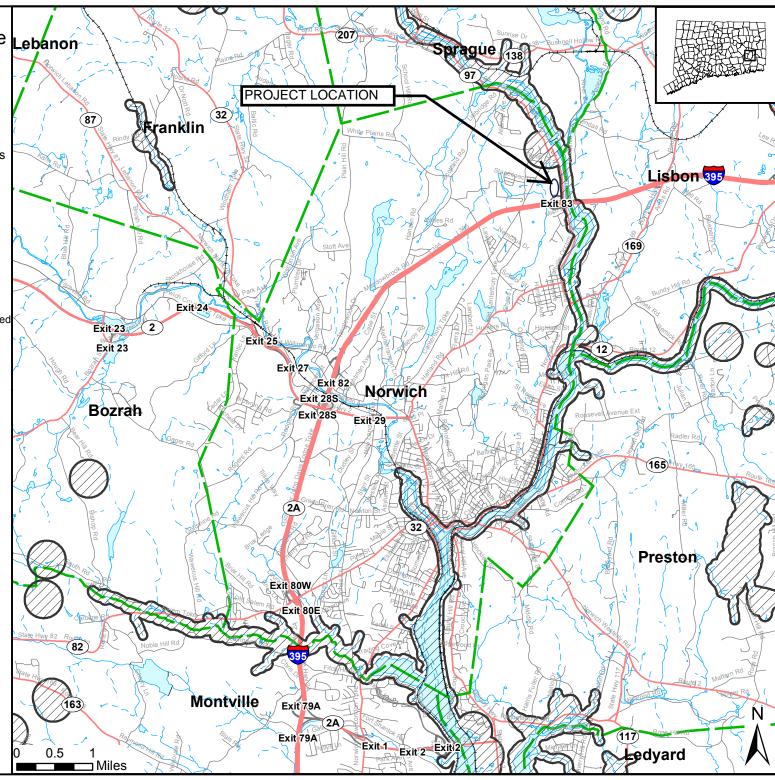
www.ct.gov/deep/nddbrequest

This file has PDF Layers. Look for the Layers tab on the left. Expand the layers and use the "eye" icons to change visibility.

QUESTIONS: Department of Energy and Environmental Protection (DEEP) 79 Elm St., Hartford CT 06106 Phone (860) 424-3011



Connecticut Department of Energy & Environmental Protection Bureau of Natural Resources Wildlife Division



Attachment A – Executive Summary

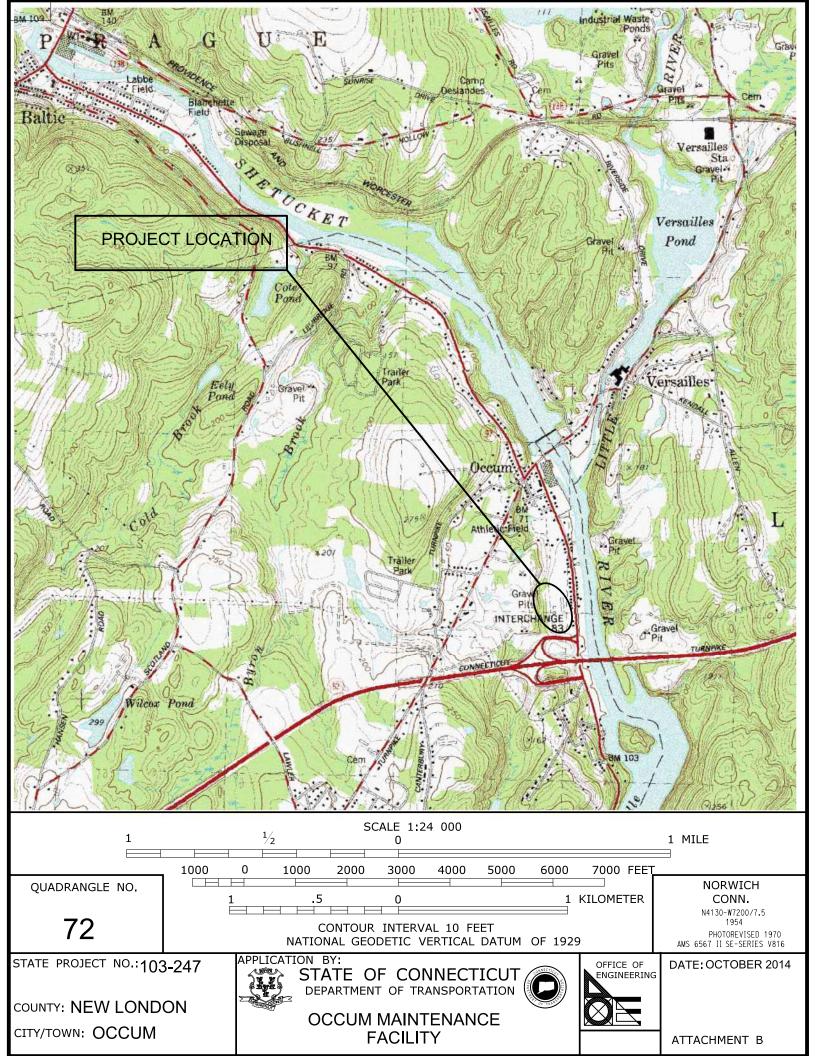
Occum Maintenance Facility Occum State Project No. 103-247

The Project consists of the building of a new maintenance facility and the renovation of the existing salt shed at 125 Taftville Occum Road in the Occum section of Norwich. The purpose of this project is to update the condition of the existing facility.

The project involves demolition of the existing maintenance facility, construction of a new maintenance facility, repairs to the existing salt shed, replacement of underground storage tanks, and site improvements.

The purpose of relocating the maintenance facility and the purpose of replacing the motor fuel underground storage tanks with an aboveground storage tank is to upgrade the storage tanks in order to comply with the Department of Energy and Environmental Protection regulations.

Environmental work associated with this project includes work with contaminated soils and developing an Environmental Health and Safety Plan.



Attachment F: Documentation Form for Flood Management Certification

1.	Applicant Name: Connecticut Department of Transportation (as indicated on the Permit Application Transmittal Form)
2.	Name of Subject Facility or Project/Project Number: Occum Maintenance Facility in Occum, Project 103-247
3.	Name of floodplain and watercourse: Shetucket River
4.	This Certification is submitted for the Commissioner's approval pursuant to Section 25-68d of the General Statutes. I hereby certify that based on my reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the proposed activity described in this application is consistent with all applicable standards and criteria established in Sections 25-68d(b) of the General Statutes and Sections 25-68h-1 through 25-68h-3, inclusive, of the Regulations of Connecticut State Agencies.
	Thomas Druck 5-1/-2013 nature of the head of the certifying State agency or Date Ther designated agent

Thomas J. Maziarz

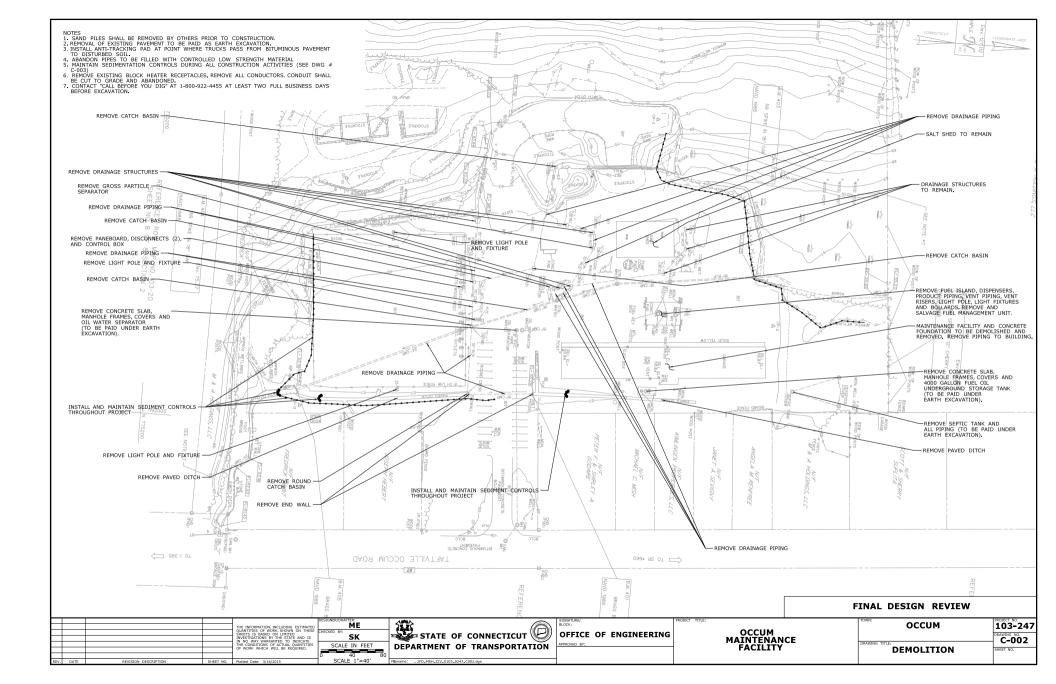
Name of the head of the certifying State agency or his/her designated agent (print or type)

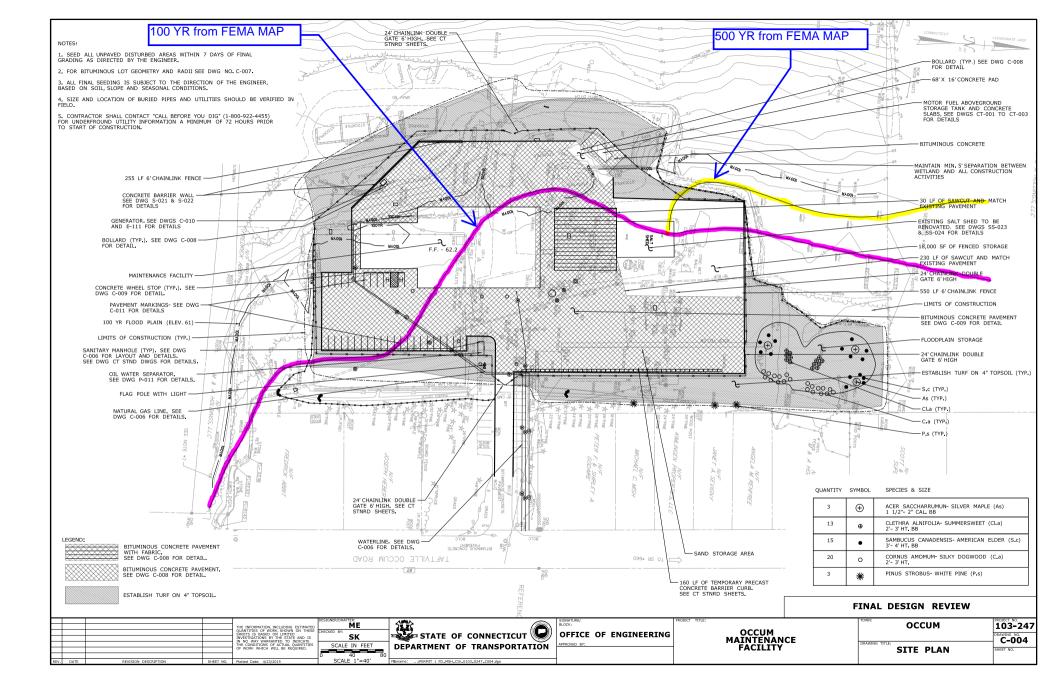
Bureau Chief,Policy & Planning Title (if applicable)

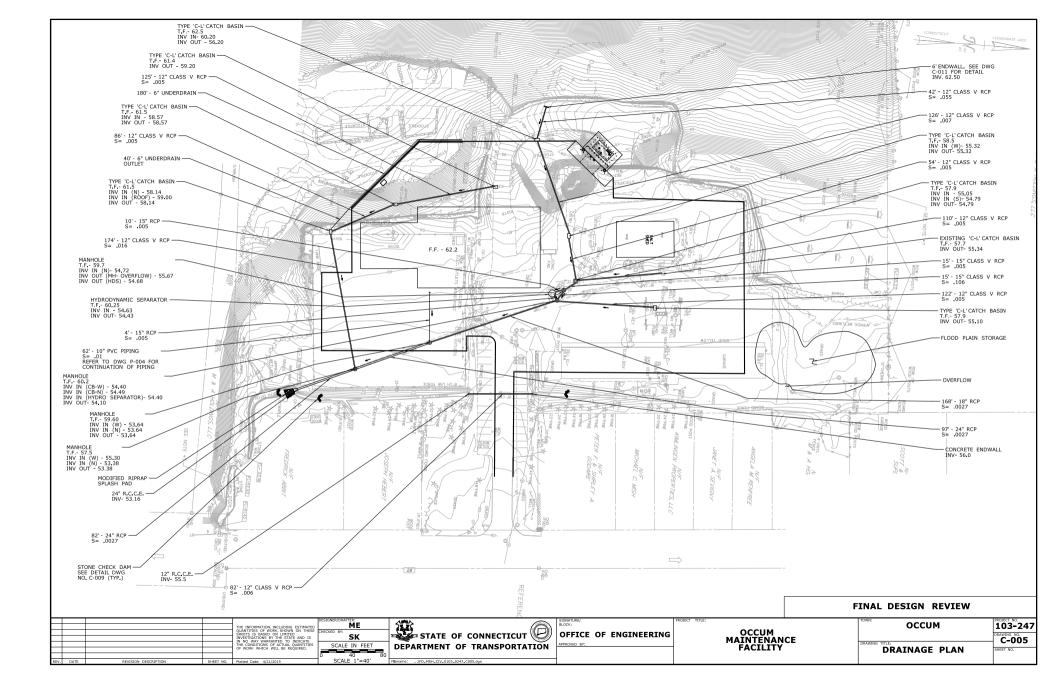
Attachment G – Plan Sheets and Drawings

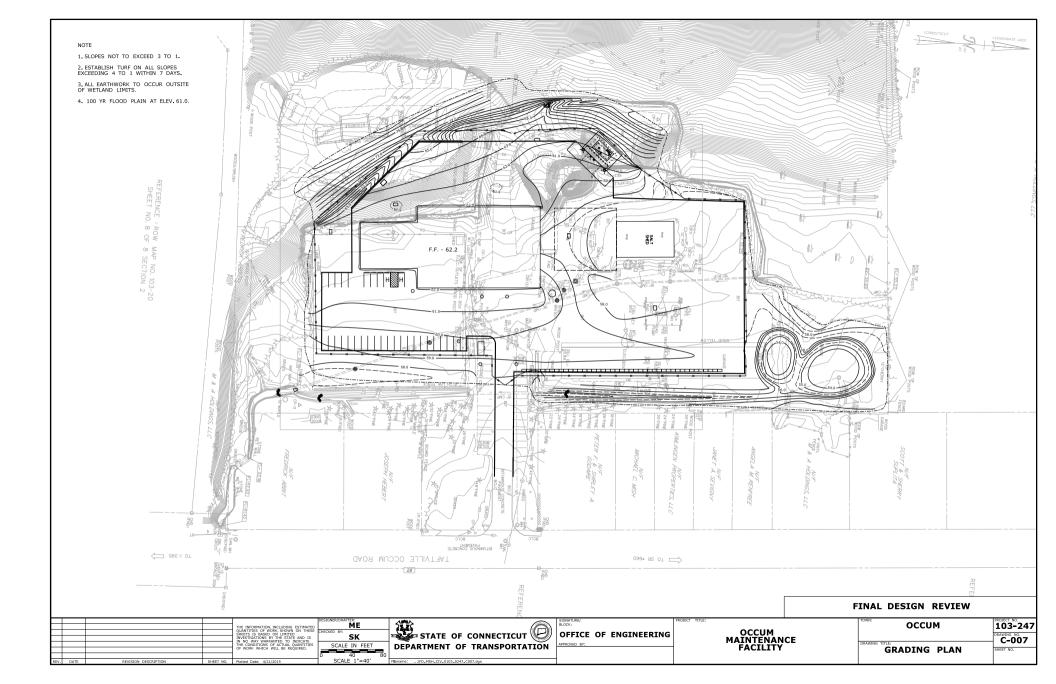
Occum Maintenance Facility Occum State Project No. 103-247

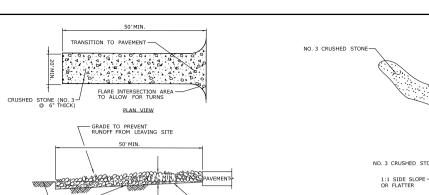
C-002	Demolition
C-004	Site Plan
C-005	Drainage Plan
C-007	Grading Plan
C-010	Miscellaneous Details
CT-001	Motor Fuel Island Plan
CT-002	Motor Fuel Tank Details
SD-007	Const. Areas & Sed. and Erosion Control
SD-008	Environmental Impact Areas
M-007	Fuel Oil Tank Details











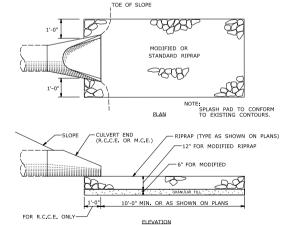
GEOTEXTILE (SEPARATION, HIGH OR MEDIUM SURVIVABILITY)

PROFILE ANTI-TRACKING PAD

NOTE:

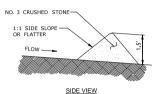
EXISTING GRADE

- LOCATION TO BE APPROVED BY ENGINEER
 ADJACENT PAVED ACCESS TO BE CLEANED ONCE A DAY.
 MUD MUST BE REMOVED FROM ALL CONSTRUCTION VEHICLES BEFORE ENTERING PUBLIC ROADS.
- 4. PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP SEDIMENT BEFORE IT IS CARRIED OFF-SITE.



SPLASH PAD DETAIL (CULVERT END)

NOT TO SCALE



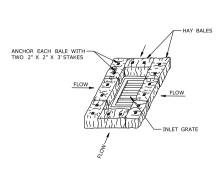
FLOW

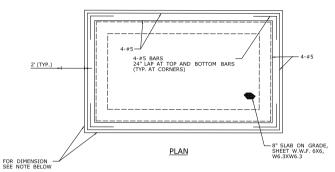
TOP VIEW

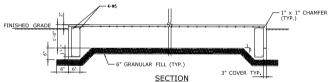
NOTES:

- 1. STONE CHECK DAM SHALL EXTEND THE FULL WIDTH OF THE BASIN, PLUS 18 INCHES KEYED INTO THE BANKS ON EACH SIDE.
- 2. THE HEIGHT OF THE CENTER OF THE CHECK DAM SHALL BE 6 INCHES LOWER THAN THE HEIGHT OF THE OUTER EDGES.

STONE CHECK DAM







NOTE:

1. GENERATOR PAD TO BE 4.6'X 14.2'. REFER TO DWG C-004
AND C-008 FOR PAD LOCATION.

2. CONCRETE SHALL BE CLASS F. REINFORCING SHALL BE
EPOXY COATED ASTM A615 GRADE 60.

CONCRETE PAD

FINAL DESIGN REVIEW

HAY BALE INSTALLATION AT CATCH BASIN

STATE OF CONNECTICUT ME OCCUM 103-247 THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. OCCUM MAINTENANCE OFFICE OF ENGINEERING SK C-010 DEPARTMENT OF TRANSPORTATION **FACILITY** MISCELLANEOUS SCALE AS NOTED DETAILS - 2



ABBREVIATIONS

AST ABOVEGROUND STORAGE TANK

© CENTER LINE

dia DIAMETER

ELEV. ELEVATION EWT&B EACH WAY TOP & BOTTOM

FMU FUEL MANAGEMENT UNIT

HMA HOT MIX ASPHALT

I.d. INSIDE DIAMETER

LF LINEAR FEET

MAX MAXIMUM

MIN MINIMUM NO. NUMBER

o.c. ON CENTER o.d. OUTSIDE DIAMETER

RGSC RIGID GALVANIZED STEEL CONDUIT

TYP TYPICAL

UST UNDERGROUND STORAGE TANK

W/ WITH

- 24" MANWAY W/ 8" EMERGENCY VENT - 4" NIPPLE FOR IN-TANK PROBE 2" NIPPLE FOR THERMAL PRESSURE RELIEF - SUBMERSIBLE PUMP WITH 4" NIPPLE, REFER TO DWG CT-002 FOR SUBMERSIBLE PUMP DETAIL -8000 GALLON DIESEL TANK (23'-1" X 8'-0" X 8'-93/4") 26'-0" 0 0 0 0 \circ 0 - 4" SPARE NIPPLE 0 FILL ASSEMBLY W/ SPILL CONTAINMENT, REFER TO DETAIL ON DWG CT-002 - REINFORCED CONCRETE SLAB (26'-0" X 13'-0"), REFER TO DWG CT-002 5'-4" (TYP) 4'-0" TANK MANUFACTURER STANDARD GALVANIZED STEEL (⊕) FUEL MANAGEMENT UNIT (FMU), REFER TO DETAIL ON DWG CT-003 FOR CONDUIT ARRANGEMENT 1'-0" MIN -METAL BEAM RAIL POSTS TO SUPPORT PRODUCT PIPING (TYP), MINIMUM EVERY 8' OF HORIZONTAL PIPING RUN 13'-0" $-1\frac{1}{2}$ " PRIMARY PRODUCT PIPING TO DISPENSER (TYP) - ISLAND LIGHT POLE, REFER TO DWG E-902 FOR DETAIL --------0 1'-6" 2'-6" (TYP) 2'-0" 1'-0" (TYP) O 2'-0" CT-003 0 O_{3'-6" (TYP)} - ISLAND FORM AND CONCRETE PAD SIZED AT LEAST 4" LARGER THAN EQUIPMENT BASE (TYP FOR DISPENSERS AND FMU) 1'-0" (TYP) 1'-0" (TYP) - HIGH FLOW DIESEL FUEL DISPENSER - 10" REINFORCED CONCRETE APRON (68'-0" X 16'-0") W/ #6 REBARS 12" o.c. EWT&B -EXPANSION JOINT, TYP 2 FOR APRON 68'-0" - DIESEL FUEL DISPENSER

- 2" NIPPLE FOR GALVANIZED STEEL VENT RISER - 8" PIPE BOLLARD (TYP 32), REFER TO DETAIL ON

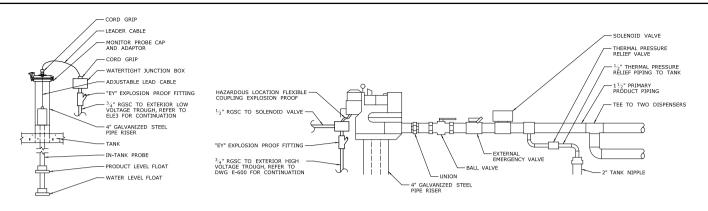
NOTES:

- P PRIMARY PRODUCT PIPING
- THE DESIGNED TANK DIMENSIONS AND SUPPORT LEG LOCATIONS ARE BASED ON CONVAULT ACTUAL SLAB DIMENSIONS SHALL BE SIZED BASED ON THE APPROVED TANK DIMENSIONS AND SUPPORT LEG LOCATIONS.

16'-0"

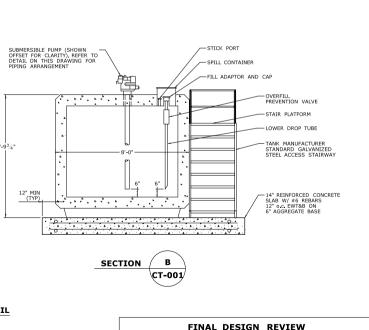
- 2. THE TANK NIPPLE ARRANGEMENT IS BASED ON CONVAULT TANKS. ACTUAL TANK NIPPLE ARRANGEMENT SHALL BE DESIGNED AS NECESSARY BASED ON THE APPROVED TANK MANUFACTURER.
- 3. REFER TO DWG CT-002 FOR MOTOR FUEL TANK AND DWG CT-003 FOR MOTOR FUEL ISLAND DETAILS.
- 4. INSTALL SALVAGED STATION SIGNS TO FENCE AS DIRECTED BY ENGINEER.
- SUPPORT PRODUCT PIPING WITH GALVANIZED STRUT MAST AND PIPE CLAMP MOUNTED TO THE TANK, TANK PAD, AND METAL BEAM RAIL POSTS.

F			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS	STATE OF CONNECTICUT	OFFICE OF ENGINEERING	MAINTENANCE FACILITY REHABILITATION		103-247 DRAWING NO. CT-001
E			IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. SCALE 1/4" = 1'-0"	DEPARTMENT OF TRANSPORTATION	APPROVED BY:	REHABILITATION	MOTOR FUEL	SHEET NO.
RI	DAT	ATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 3/17/2015	Filename:\FD_MSH_CIV_0103_0247_CT001.dgn			ISLAND PLAN	



IN-TANK PROBE DETAIL

SUBMERSIBLE PUMP DETAIL



NOTES:

THE DESIGNED TANK DIMENSIONS AND SUPPORT LEG LOCATIONS ARE

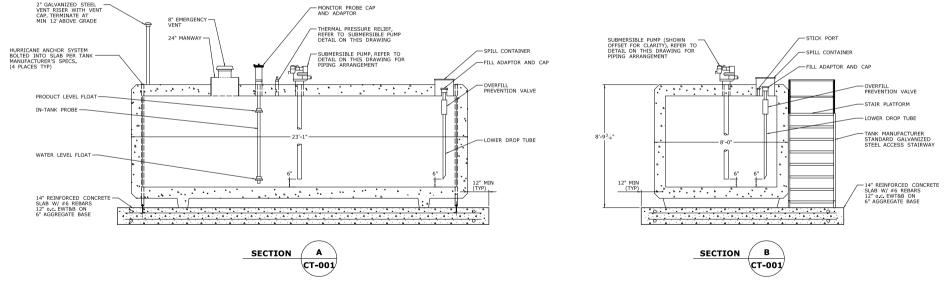
ON THE APPROVED TANK DIMENSIONS AND SUPPORT LEG LOCATIONS.

THE TANK NIPPLE ARRANGEMENT IS BASED ON CONVAULT TANKS. ACTUAL TANK NIPPLE ARRANGEMENT SHALL BE DESIGNED AS NECESSARY

ALL CONDUITS SHALL BE PROVIDED WITH EXPLOSION PROOF FITTINGS AND SEALED AS REQUIRED IN ACCORDANCE WITH NEPA 70.

BASED ON THE APPROVED TANK MANUFACTURER.

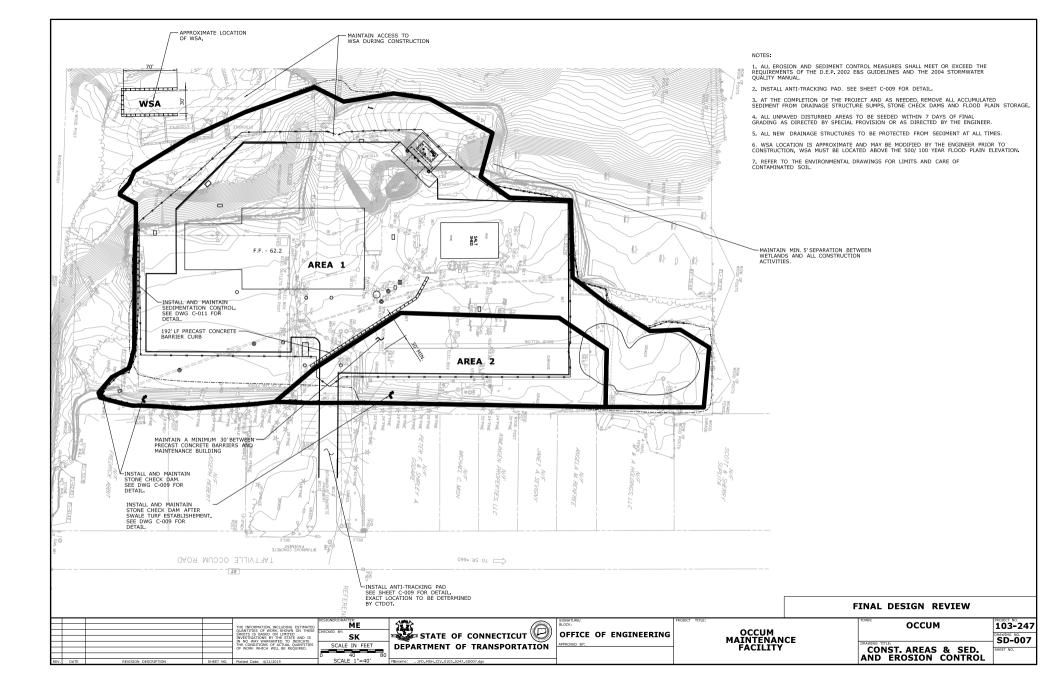
BASED ON CONVAULT ACTUAL SLAB DIMENSIONS SHALL BE SIZED BASED

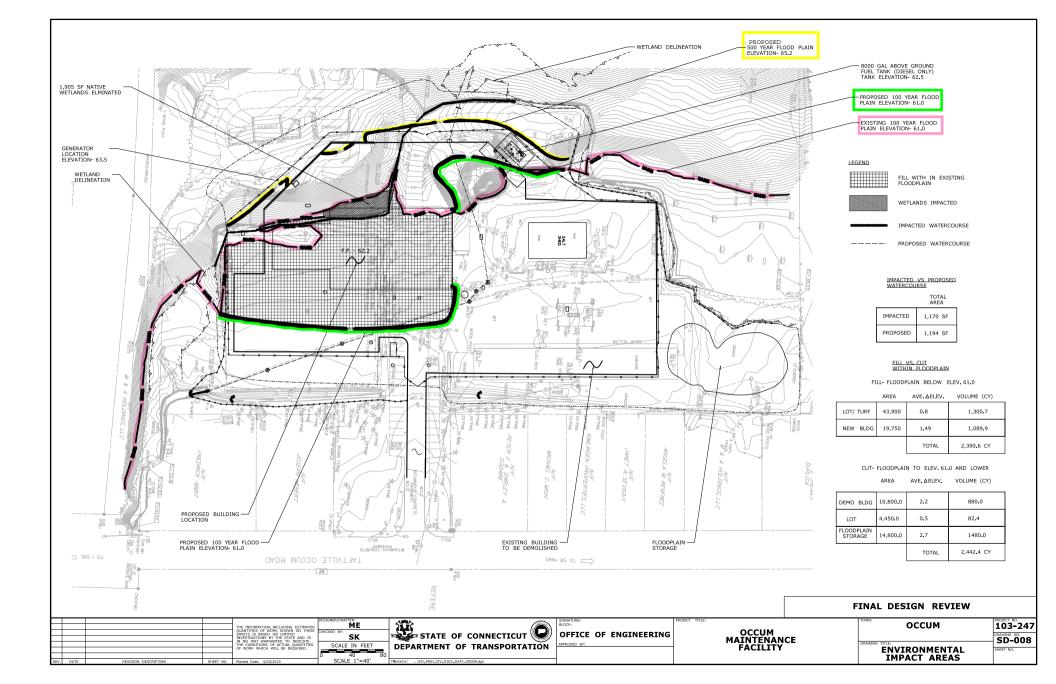


MOTOR FUEL ABOVEGROUND STORAGE TANK DETAIL

FINAL DESIGN REVIEW

			THE INFORMATION, INCLUDING ESTIMATED	NAR		SIGNATURE/ BLOCK:	PROJECT TITLE:	OCCUM	103-247
þ			SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL UNDIVISES	JAB	JANE OF COMMECTICO	OFFICE OF ENGINEERING	OCCUM MAINTENANCE FACILITY	DRAWING TITLE:	CT-002
F			OF WORK WHICH WILL BE REQUIRED.	NOT TO SCALE	DEPARTMENT OF TRANSPORTATION	APPROVED BY.		MOTOR FUEL TANK DETAILS	SHEET NO.
	v. DATE	REVISION DESCRIPTION SHEET	O. Plotted Date: 3/18/2015		Filename:\FD_MSH_CIV_0103_0247_CT002.dgn			TANK DETAILS	





1. THE DESIGNED TANK DIMENSIONS ARE BASED ON CONTAINMENT SOLUTIONS. ACTUAL PAD DIMENSIONS SHALL BE SIZED BASED ON THE APPROVED TANK DIMENSIONS. THE MANHOLE ARRANGEMENT IS BASED ON CONTAINMENT SOLUTIONS TANKS, ACTUAL MANHOLE ARRANGEMENT SHALL BE REDESIGNED AS NECESSARY BASED ON THE APPROVED TANK MANUFACTURER ALL CONDUITS SHALL BE PROVIDED WITH EXPLOSIONPROOF FITTINGS AND SEALED AS REQUIRED IN ACCORDANCE WITH NFPA 70. CORD GRIP L8" dia MANHOLE WATERTIGHT JUNCTION BOX FRAME AND COVER RGSC SHALL BE USED FOR THE FIRST 2'OF THE CONDUIT RUN FROM TANK SUMPS AND TRANSITION TO SCHEDULE 80 PVC. - CORD GRIP MONITOR PROBE - WATERTICHT CAP AND ADAPTOR JUNCTION BOX 5. ALLOW SLACK AT TANK IN ALL PIPING FOR SETTLING OF TANK. "EY" EXPLOSION PROOF FITTING "EY" EXPLOSION NOTE: IN-TANK PROBE MOUNTS IN SUMP WITH FILL RISER 6. REFER TO PLAN E-602 FOR TANK MONITORING SYSTEM BLOCK DIAGRAM. PROOF FITTING ADILISTABLE 7. REFER TO PLAN M-008 FOR PIPING AND CONDUIT ORIENTATIONS LEAD CABLE 4" STEEL PIPE RISER - 3/4" RIGID STEEL CONDUIT LEAD CABLE WITH CORD GRIPS RISER PIPE CAP ADJUSTABLE LEAD CABLE POSTONICO 4" PVC PIPE RISER DOUBLE-WALL TANK WATERTIGHT JUNCTION BOX (AS REQUIRED) "EY" EXPLOSION PROOF - HYDROSTATIC SENSOR FITTING (AS REQUIRED) NOTE: DISCRIMINATING SUMP IN-TANK PROBE RESERVOIR SENSORS MOUNT IN PIPING SUMP AND FILL/IN-TANK PROBE SUMP 3/4" RGSC (AS REQUIRED) PRODUCT LEVEL FLOAT DISCRIMINATING TYPE SUMP SENSOR WITH UNIVERSAL MOUNTING BRACKET BRINE LEVEL WATER LEVEL FLOAT DOUBLE-WALL TANK DOUBLE-WALL TANK HYDROSTATIC SENSOR DETAIL IN-TANK PROBE DETAIL TYPICAL DISCRIMINATING SUMP SENSOR DETAIL 40" dia SINGLE-PORT SPILL CONTAINMENT MANHOLE FOR FILL, WITH GAUGE PORT AND 5-GALLON SPILL CONTAINER 2" GALV STEEL RISER WITH VENT CAP SUPPORTED ON 3" GALV STEEL POLE-FASTENED BY STRUT CHANNEL. TERMINATE 3' ABOVE ROOF, REFER TO 4" STEEL FILL PIPE RISER WITH DRAWING NO. M-003 FOR VENT RISER LOCATION ADJACENT TO BUILDING. SWIVEL ADAPTOR AND TOP SEAL FILL CAP, 6" MAX BELOW GRADE -36" dia MANHOLE FRAME AND COVER 42" dia CONTAINMENT 18" dia MANHOLE FRAME -2" FIBERGLASS ADAPTOR SUMP WITH TOP 8" HANDHOLE -#6612 EVITAB REINFORCEMENT #6612 EVITAB REINFORCEMENT #608 COREFTE SLAB (TVP) # ACCESS PIPE CONTINUOUS BITUMINOUS CONCRETE ESTABLISHED HYDROSTATIC WITH OPEN TOP FIBERGLASS REINFORCED TYP FIBERGLASS REINI EPOXY VENT PIPE POXY VENT PIPE 4" DROP TUBE WITH OVERFILL PREVENTION VALVE PEASTONE GRAVEL PEASTONE GRAVE. PEASTONE GRAVE. PEASTONE GRAVE. WITH FITTINGS 16' ON CENTAGE WITH FITTINGS 1 4" ACCESS PIPE CONTINUOUS TO MECHANICAL ROOM (TYP 2), REFER TO DRAWTING NO. M-008 FOR FUEL OIL PIPING DETAILS FLEXIBLE CONNECTOR 4" PVC (SLOTTED) SNIFF TUBE (2 PLACES) 3/4" FUEL OIL SUCTION AND RETURN AND SPARE LINES, REFER TO DRAWING NO. M-008 FOR FUEL OIL PIPING DETAILS DISCRIMINATING SUMP SENSOR DEFLECTOR PLATES REQUIRED UNDER ALL OPENINGS IN-TANK PROBE - 42" dia CONTAINMENT COLLAR - DISCRIMINATING SUMP SENSOR ANCHOR STRAP WITH TURNBUCKLE AND HOOKED ANCHOR 12" FROM EACH END. PROVIDE ANCHOR STRAPS PER MANUFACTURERS RECOMMENDATIONS. PRODUCT LEVEL FLOAT - 2" VENT PIPE WITH FLEXIBLE CONNECTO WATER LEVEL FLOAT DEFLECTOR PLATES REQUIRED UNDER ALL OPENINGS 4 ADDITIONAL #4 T&B @ ANCHOR LOCATIONS TYPICAL 2 PLACES BRINE FILLED ANNULAR SPACE LOCATIONS TYPICAL 2 FLACES 8" PVC (SLOTTED) EMBEDDED SNIFF TUBE ANCHORAGE THROUGH SLAB (2 PLACES). SNIFF TUBE TO BE HELD IN PLACE WHILE BACKFILLING. 4 ADDITIONAL #4 T&B @ ANCHOR LOCATIONS TYPICAL 2 PLACES #4 @ 12" EWT&B REINFORCEMENT_FOR_CONCRETE - 24" · TYP -FILTER FABRIC FILTER FABRIC SECTION Α SECTION В M-008/ M-008 2000 GALLON DOUBLE WALL FUEL OIL TANK DETAIL FINAL DESIGN REVIEW STATE OF CONNECTICUT NAR **NORWICH** 103-247 THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. OCCUM MAINTENANCE OFFICE OF ENGINEERING JSB M-007 DEPARTMENT OF TRANSPORTATION **FACILITY FUEL OIL TANK**

DETAILS

NOT TO SCALE

Attachment H: Engineering Documentation

Part 1: Engineering Report Checklist

The following is a checklist of requirements that need to be completed, included and submitted as part of the Engineering Report. Please complete this checklist by identifying where each requirement listed is addressed in the Engineering Report (report title and page numbers). If an item is not applicable, place "NA" in the box. Attach the completed checklist as the cover sheet to engineering reports, as applicable, which fully describe the design of the proposed facilities or other actions and the hydraulic and hydrologic effects thereof. The application instructions (DEP-IWRD-INST-100) should be consulted for a complete description of each item listed. This checklist is required to be signed and sealed by a professional engineer licensed in the State of Connecticut.

Stormwater Management

Location of Item	Item Description
	Description of the design storm frequency intensity, volume and duration
Attachment Q	Watershed maps, existing and proposed
	Computations for Tc
Attachment Q	Imperviousness calculations
	NRCS runoff curve numbers, volumetric runoff coefficients
	Computations used to determine peak runoff rates, and velocities for each watershed area (24-hour storm):
	 Stream Channel Protection: 2-year frequency ("over-control" of 2-year storm) Conveyance Protection: 10-year frequency Peak Runoff Attenuation: 2-year, 10-year, and 100-year frequency Emergency Outlet Sizing: safely pass the 100-year frequency or larger storm
	Hydrograph routing calculations
Attachment Q	Description, schematics, and calculations for drainage and stormwater management systems, bridges and culverts
	Infiltration rates
	Documentation of sources
	Computer disk containing input and output data and the associated program for all computer models used in the analyses
	Hard copy of input and output data including input/output tables
	Detention basin analysis including timing and duration of expected outflow, stream stability analysis and hydrograph summation

Flood Plain Assessment

Location of Item	Item Description
	Description or simulation of existing and proposed conditions upstream and downstream of the proposed activity
	(For SCEL applications only) A determination of the effect of the proposed activity on flooding and flood hazards together with an equivalent encroachment on the opposite bank for the flood event establishing the encroachment lines
	For any bridge or culvert placement or replacement with a drainage area of 100 acres or more, plan sheets showing the existing and proposed inundation area for the 2, 10, 25, 50, and 100 year discharges, carried to convergence
	A description and analysis of the floodplain modifications required to restore any flood conveyance and flood storage capacity
	Demonstration that backwater from the proposed activity will not impact an existing dam, dike, or similar structure
	Backup data and complete hydraulic analysis for proposed modifications to the floodplain including location plan and plot for sections, profile sheet, summary sheet

Dams, Dikes, Diversion Channels, Similar Structures

Location of Item	Item Description
	Primary and emergency spillway and outlet structure erosion protection
	Dam breach analysis
	Geotechnical evaluation
	Construction Specifications for foundation preparation, embankment material, outlet structure, and construction inspection

Soil Erosion and Sediment Control Plan

Location of Item	Item Description
Attachment Q	Narrative
Attachment G	Drawings
Attachment G	Details
	Calculations for Engineered Measures

Professional Certification

For any Engineering Report submitted as part of the IWRD permit application, the following certification must be signed and sealed by a professional engineer licensed to practice in Connecticut and submitted with the Engineering Report Checklist and Report.

"I certify that in my professional judgement, each requirement listed in the Engineering Report Checklist has been addressed in the Engineering Report submitted as part of the IWRD permit application as Attachment H, Part 1 and that the information is true, accurate and complete to the best of my knowledge and belief.			
This certification is based on my review of the Engineering Report.			
I understand that a false statement made in the submitted information may, pursuant to Section 22a-6 of the General Statutes, be punishable as a criminal offense under Section 53a-157b of the General Statutes, and may also be punishable under Section 22a-438 of the General Statutes."			
Thomas Magues Signature of Applicant	5-//-2015 Date		
orgination of Appropriate	Bato		
Thomas J Maziarz	Bureau Chief,Policy & Planning		
Name of Applicant (print or type)	Title (if applicable)		
John W. Welsk	4/27/15		
Signature of Professional Engineer	Date		
John W. Waleszczyk			
Name of Professional Engineer (print or type)	P.E. Number (if applicable)		
	Affix P.E. Stamp Here (if applicable)		
•			

Attachment H: Engineering Documentation

Part 2: Hydrologic and Hydraulic Consistency Worksheet

Inland Water Resources Division Permit Activities

This worksheet has four sections; only complete the section(s) applicable to the proposed project. Where a question requires a "Yes" or "No" answer, select the appropriate response and explain your response, if required, in the space provided.

- **Section I:** Floodplain Management (if the proposed project involves a structure, obstruction, encroachment or work in a watercourse, floodplain, or coastal high hazard area)
- **Section II:** Stormwater Management (if the proposed project involves stormwater drainage or stormwater runoff)
- Sections III: State Grants and Loans and Section IV: Disposal of State Land (only if the applicant is a state agency seeking flood management certification approval for state grants and loans or disposal of state land)

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Definitions of terms used in these worksheets are found in Section 25-68b of the Connecticut General Statutes and Section 25-68h-1 of the Regulations of Connecticut State Agencies and in the National Flood Insurance Program Regulations (44 CFR, Chapter 1, Subchapter B, Part 59.1).

Section I: Floodplain Management

Section I: Floodplain Management

Naı	Name of Applicant: Connecticut Department of Transportation					
Naı	me c	of Proposed Project: Occum Maintenance Facility				
1.	Ge	neral Criteria				
	a.	Critical Activity - Does the proposed project involve the treatment, storage and disposal of hazardous waste or the siting of hospitals, housing for the elderly, schools or residences, in the 0.2 per cent [500 year] floodplain? Yes No				
		If yes, the base flood for the critical activity shall have a recurrence interval equal to the 500 year flood event; if no, the base flood for the activity shall have a recurrence interval equal to the 100 year flood event.				
	b.	Nonintensive Floodplain Uses - Will the proposed project promote development in floodplains or will utilities servicing the project be located so as to enable floodplain development?				
		☐ Yes No				
		Explain:				
	C.	National Flood Insurance Program (NFIP) - Will the proposed project be located within an area of special flood hazard designated by the Federal Emergency Management Agency (FEMA)?				
		Zone AE				
		Does the proposed project meet the NFIP minimum standards established in 44 CFR, Chapter 1, Subchapter B, Part 60.3, floodplain management criteria for flood-prone areas?				
	d.	Municipal Regulations - Has the municipality in which the proposed project is to be located adopted				
		floodplain regulations containing requirements that are more restrictive than the NFIP floodplain management criteria for flood-prone areas? Yes No				
		If yes, describe the more restrictive requirements:				
		Does the proposed project comply with the more restrictive standards of the municipality?				
		☐ Yes ☐ No				

2.	Flo	ooding and Flood Hazards
	a.	Flooding - Will the proposed project pose any hazard to human life, health or property in the event of a base flood? ☐ Yes ☐ No
		If yes, explain:
	b.	Flood Velocities - Will the proposed project cause an increase in flow velocity or depth during the base flood discharge? Yes No
		If yes, the increase in velocity is: fps and/or the increase in depth is: ft.
		Will such increase in velocity or depth cause channel erosion or pose any hazard to human life, health or property? Yes No
		Explain:
	C.	Flood Storage - Will the proposed project affect the flood storage capacity or flood control value of the floodplain?
		If yes, describe the effects:
	d.	Degrading or Aggrading Stream Beds - Is the streambed currently degrading or aggrading?
		☐ Degrading ☐ Aggrading ☐ Neither
		Has the project design addressed degrading or aggrading streambed conditions? ☐ Yes ☐ No
	e.	Ice Jams - Is the watercourse prone to ice jams or floods due to ice? ☐ Yes ☐ No
		Has the project design considered ice jams or floods due to ice? ☐ Yes ☐ No

	f.	sto exp inju	rage of molosive, so rious to h	aterials oluble, numan,	s & Equipme s below the s expansive or animal or pl	500 yea r radioa	ar flood e active, or	levation the stor	that are	e buoyar	nt, haza	rdous, fla	mmabl	e,
		\boxtimes	Yes	∐ N	lo									
					materials ar loodplain to								ge, sec	cured or
		tha	t is attac	hed to	iesel motor concrete s									
		2,0		ns of #	2 fuel-oil wi vith straps t						ss und	erground	storaç	ge tank
		uia	it is alicii	ioreu v	vitii straps t	.0 a co	iiciete s	iab beio	w grac	ic.				
		pro the floo	hibited be 500 year ods, and p	elow the flood or provide	s that could e elevation o elevation pro d that such r ting away or	of the 5 ovided t materia	00 year f hat such Il or equip	lood. Otl materia pment is	ner mat I or equ firmly a	erial or on the contract in th	equipm s not so d, restra	ent may b ubject to n ained or ei	e store najor d nclosed	ed below amage by d to
	g.	Flo	odwater l	l oads -	Will structur	res fac	cilities an	d stored	materia	als he ar	nchored	or otherv	vise de	signed to
	g.				collapse, or la									
		incl	luding the	effect	s of buoyand	y?	⊠ Ye	es [] No					
3.	Sta	and	ards for	Struc	tures in Flo	oodpl	ains or	Coasta	l High	Hazard	l Areas	s		
					ject involve a gh hazard are		or substa ⊠ Ye		proved		e or fac	cility locate	ed withi	in a
	If y	es, c	complete	this su	bsection; if n	o, skip	to subse	ection 4	(Topog	raphy C	Change	s within I	Floodp	lain).
	a.		<i>uctures in</i> h hazard		tal High Haza	ard Are	as - Will		cture or		oe locat	ed within	an NFI	P coastal
		·			canh 2/h): if s	100 :		,3						
			•		aph 3(b); if y									
		1.		structu	re or facility l	be loca	ited land	ward of t	ne read	ch of me	an high	tide?		
			☐ Yes		☐ No									
		2.	Will a ne FEMA?	ew stru	cture or facili	ity be lo	ocated or No	n an und	evelope	ed coast	al barri	er beach o	designa	ated by
		3.	must be of the lov flood lev resist flo	elevate west flow el and patation	or facility is/ved on pilings or (excludin the pile or controlled, collapse and base flood	or coluing the polumn for the column	umns so oilings or foundatio ral mover	that the columns on and st nent due	bottom i) is eleveructure to the	of the lovated to attache effects of	west he at least d theref of wind,	orizontal s t one foot to must be velocity v	tructura above ancho vaters,	al member the base ored to
			Does the	e propo	sed structur	e or fa	cility mee	et these s	standar	ds?	Π,	Yes	□ I	No
					elevation is:		ft.	(Datur)	_			
					of the lowest			•		, :-	ft.	(Datum	١٠)
			THE CIEV	auon C	n tilo lowest	HOHZUI	iiai siiub	turai IIIE	111061 18	,.	14.	(Datuii		,

	4. Will the space below the lowest floor be either free of obstruction or constructed with non-supporting breakaway walls? Yes No
	5. Will fill be used for structural support of any buildings within coastal high hazard areas?Yes No
b.	Structures in Floodplain Areas - Are the structures residential or nonresidential?
	Residential Monresidential If nonresidential, skip to paragraph 3(d) below.
C.	Residential Structures - If the structure or facility is for human habitation will the lowest floor of such structure or facility, including its basement, be elevated one foot above the level of the 500 year flood?
	☐ Yes ☐ No
	The 500 year flood elevation is: ft. (Datum:
	The elevation of the lowest floor, including basement, is: ft. (Datum:
d.	Non-residential Structures - If the structure or facility is not intended for residential uses, will the lowest floor of such structure or facility, including its basement, be elevated to or above the 100 year flood height or be floodproofed to that height, or in the case of a critical activity, the 500 year flood height?
	☐ Yes ☐ No An Exemption is being requested.
	If yes, the structure will be: ☐ Elevated ☐ Floodproofed
	The base flood elevation is: 61.0 ft. (Datum: NAVD 1988) The base flood el. for critical activity is 65.2 ft. (Datum: NAVD 1988) The elevation of the lowest floor, including basement, is: 62.2 ft. (Datum: NAVD 1988)
	The structure is floodproofed to: 62.2 ft. (Datum: NAVD 1988) The above & underground tanks are floodproofed to 66.2 ft. Note: for insurance purposes nonresidential structures must be floodproofed to at least one foot above the base flood elevation. DEP strongly encourages that the height of floodproofing incorporate one foot of freeboard.
e.	Utilities - Will service facilities such as electrical, heating, ventilation, plumbing, and air conditioning equipment be constructed at or above the elevation of the base flood or floodproofed with a passive system? ☐ Yes ☐ No
f.	Water Supply Systems - Does the proposed project include a new or replacement water supply system? ☑ Yes ☐ No
	If yes, is the water supply system designed to prevent floodwaters from entering and contaminating the system during the base flood? $\ \ \ \ \ \ \ \ \ \ \ \ \ $
g.	Sanitary Sewage Systems - Does the proposed project include a new or replacement sanitary sewage or collection system? ☐ Yes ☐ No
	If yes, is the sanitary sewage system designed to minimize or eliminate the infiltration of flood waters into the systems and discharges from the systems into flood waters during the base flood?
h.	Foundation Drains - Are foundation drains of buildings designed to prevent backflow from the 100 year frequency flood into the building?
	☐ Yes ☐ No ☒ No foundation drains

4.	Activity within Floodplain					
	Does the proposed project involve activity in a floodplain including but not limited to filling, dumping, construction, excavating, or grading?					
	\boxtimes	Yes No If no, skip to subsection 5 (Alterations of Watercourses).				
		es, does the proposed project include encroachments, including fill, new construction, substantial provements, or other development within a NFIP adopted regulatory floodway?				
		Yes No If yes, skip to paragraph 4(b) below.				
	a.	No Regulatory Floodway - The NFIP requires that until a regulatory floodway is designated, that no new construction, substantial improvements, or other development (including fill) shall be permitted within Zones A1-30 and AE unless it is demonstrated that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one foot at any point. (If no regulatory floodway has been adopted, project impacts may be evaluated by considering an equivalent conveyance loss on the opposite side of the river from the proposed project.)				
		Is the proposed project consistent with this requirement?				
	b.	Floodway Encroachments - Will the proposed encroachment into the floodway result in any increase in flood levels during either the 100 year or 10 year discharges?				
		100 year:				
		If yes, has the applicant received approval of such increase in accordance with 44 CFR, Chapter 1, Subchapter B, Part 65.12?				
		10 year:				
	C.	Coastal Areas - Flood hazard potential in coastal areas shall be evaluated considering surface profiles of the combined occurrence of tides, storm surges, and peak runoff. The starting water surface elevation for the base flood in watersheds with time of concentrations of over 6 hours shall be the 10 year frequency tidal surge level.				
		If the proposed project is in a coastal area, have the hydraulic analyses incorporated these criteria?				
		☐ Yes ☐ No ☒ Not in Coastal Area				
5.	Alt	erations of Watercourses				
		es the proposed project include the construction or alteration to a natural perennial watercourse or manade channel?				
	⊠ sul	Yes				
	a.	Topography Change - Is the watercourse or channel located within a regulatory floodway or Zone A1-30 or AE as designated by the NFIP? ☐ Yes ☐ No				
	b.	Hydraulic Capacity - Does the channel have a minimum flow capacity of a flood equal to at least the 25 year frequency flood? \square Yes \square No \mathbb{N}/\mathbb{A}				
		The channel capacity is designed for the: year flood.				
		Does the channel have an inner channel with a capacity of a 2 year frequency flood? Yes No				

C.	includir	c Habitat - Channel alterations should be designed to create aquatic habitats suitable for fisheries, ng suitable habitat for maintaining fish populations and to enable fish passage, and to maintain or e water quality, aesthetics, and recreation.
	Has the	e applicant had any pre-application meetings or correspondence with DEP Fisheries?
	Check	each of the following criteria that have been incorporated into the project design:
	□ 1.	artificial channel linings have been avoided;
	□ 2.	the channel will encourage ecological productivity and diversity;
	□ 3.	the channel and its banks will be compatible with their surroundings;
	4 .	the channel will vary in its width, depth, invert elevations, and side slopes to provide diverse aquatic habitat;
	☐ 5.	straightening existing channels and thereby decreasing their length has been avoided;
	☐ 6.	the channel will not create barriers to upstream and downstream fish passage;
	7 .	the channel will contain pools and riffles and a low flow channel to concentrate seasonal low water flows;
	□ 8.	the channel will contain flow deflectors, boulders and low check dams to enhance aquatic habitat;
	<u> </u>	stream bank vegetation will be preserved where feasible and disturbed stream bank areas will be replanted with suitable vegetation;
	□ 10.	clean natural stream bed materials of a suitable size will be incorporated in the new channel; and
	<u> </u>	construction of the proposed project will be scheduled to minimize conflicts with spawning, stocking, and recreational fishing seasons.
	Describ	be how the above aquatic habitat design criteria have been incorporated into the project design:

6.	Cu	ulverts and Bridges				
	Does the proposed project involve the repair or new construction of a culvert or bridge?					
	☐ Yes ☐ No If no, go to subsection 7 (Temporary Hydraulic Facilities).					
	lf y	yes, complete this subsection:				
	a.	Fish Passage - Does the culvert design allow for the passage of fish?				
		If yes, describe the specific design provisions for fish passage:				
	b.	Depressed Structural Floors - Is the rigid structural floor of the culvert or bridge depressed below the normal stream bed to allow a natural stream bed to form over the floor?				
		☐ Yes ☐ No ☐ No rigid structural floor				
	C.	Multiple Openings - The use of a single large culvert or bridge opening is preferred over the use of multiple small openings. Has the design minimized the use of multiple small openings?				
		☐ Yes ☐ No				
		If no, explain:				
	,					
	d.	Sag Vertical Curves - Does the design utilize solid parapet walls in the sag part of a vertical curve?				
		Yes No Not located in a sag vertical curve				
	e.	Debris Blockage - Is the culvert or bridge prone to blockage by debris?				
		If yes, has the project design incorporated measures to minimize the potential for debris blockage?				
		☐ Yes ☐ No				
	f.	Topography Change - Is the culvert or bridge located within a regulatory floodway or Zone A1-30 or AE as designated by the NFIP? ☐ Yes ☐ No				

g. State	Highways - Does the watercourse pass under a state roadway?
	es
Depai	, culverts and bridges for state highways shall be designed in accordance with the Connecticut rtment of Transportation (DOT) Drainage Manual and all applicants should refer to it for specific n criteria. In general, however, the Drainage Manual requires the following:
(Place	e a check mark for all applicable criteria utilized)
	dinor Structures - Minor structures have a drainage area of less than one square mile in which there no established watercourse. They shall be designed to pass the 25 year frequency discharge.
	mall Structures - Small structures have a drainage area of less than one square mile in which there an established watercourse. They shall be designed to pass the 50 year frequency discharge.
aı	ntermediate Structures - Intermediate structures have a drainage area greater than one square mile and less than 10 square miles. They shall be designed to pass the 100 year frequency discharge with reasonable underclearance.
10	arge Structures - Large structures have a drainage area greater than 10 square miles and less than 000 square miles. They shall be designed to pass the 100 year frequency discharge with an inderclearance not less than two feet.
m	donumental Structures - Monumental structures have a drainage area greater than 1000 square niles. They shall be designed to meet the requirements of the Connecticut Department of nvironmental Protection, U.S. Army Corps of Engineers, and the U.S. Coast Guard.
in ad tid	idal Structures - Tidal structures are subject to tidal action and shall be classified as minor, small, itermediate, etc. depending on their drainage area. These structures shall be designed in accordance with the previously listed classifications. However if the highway is subject to frequent dal flooding, the design storm may be made consistent with the frequency of flooding by tidal action. he proposed culvert or bridge is classified as:
	Tidal, minor
	Tidal, small
	Tidal, intermediate
	Tidal, large
	Tidal, monumental
	as the structure been designed in accordance with the criteria established in the DOT Drainage lanual?
	no, describe the lower design standards and the reasons for not complying with the DOT Drainage lanual:

	2.	Will the proposed culvert or bridge increase upstream water surface elevations in the event of a base flood above that which would have been obtained in the natural channel if the highway embankment were not constructed?
		If yes, is the increase in elevation more than one foot? Describe:
	3.	Will the proposed culvert or bridge be designed so that flooding during the design discharge does not endanger the roadway or cause damage to upstream developed property? (NOTE: The design discharge for culverts and bridges on state highways should be that which was determined by FEMA. If the applicant judges that the FEMA discharge is inappropriate, the project should be analyzed for both the applicant's computed flow and the FEMA discharge. The project, however, must still meet the standards of the NFIP.)
		Explain:
h	l.o.	pol Doodo & Drivovovo I pool roodo (not stato highwaya) and drivovovo mov he decigned for flood
h.	fre	cal Roads & Driveways - Local roads (not state highways) and driveways may be designed for flood quencies and underclearances less stringent than those specified in the DOT Drainage Manual when eck all that have been incorporated into the project design):
		1. the road is at or close to the floodplain grade
		water surface elevations are not increased by more than one foot nor cause damage to upstream properties
		3. provisions are made to barricade the road when overtopped
		4. the road or driveway is posted as being subject to flooding
		5. the road or driveway has low traffic volume
		6. alternate routes are available
		e culvert or bridge has been designed to pass the: year frequency discharge with an derclearance of: feet.
		lizing the DOT Drainage Manual classifications listed under paragraph 6(g) above, the culvert or dge is classified as a: structure.

	h.	If the culvert or bridge is designed to standards lower than which is stipulated in the DOT Drainage Manual, list such standards and the reasons for the lower design standards:
	i.	Downstream Peak Flows - Will the proposed culvert or bridge increase downstream peak flows by decreasing existing headwater depths during flooding events?
		If yes, describe the selected design criteria and the impacts to downstream properties:
7.	Te	mporary Hydraulic Facilities
,,	Ter cha	mporary hydraulic facilities include all channels, culverts or bridges which are required for haul roads, annel relocations, culvert installations, bridge construction, temporary roads, or detours. They are to be signed with the same care which is used for the primary facility.
		ne proposed activity involves a temporary hydraulic facility(s), has such facility been designed in cordance with Chapter 6, Appendix F, "Temporary Hydraulic Facilities," of the DOT Drainage Manual?
		Yes ☐ No ☒ No temporary hydraulic facilities
	If y	es, the design flood frequency is the: year flood.
	Des	scribe the temporary facilities:

Section II: Stormwater Management

Na	me of Applicant: Connec	ticut Department of Transportation				
Na	Name of Proposed Project: Occum Maintenance Facility					
1.	1. Stormwater Runoff					
	The proposed project w	ill (check all that apply):				
		f impervious surfaces				
	☐ Increase runoff coe	fficients				
	☐ Alter existing draina	ige patterns				
	☐ Alter time of concer	ntrations				
	☐ Change the timing	of runoff in relation to adjacent watersheds				
	Will the proposed projethe volume of runoff?	ect impact downstream areas by increasing	peak flow rates, the timing of runoff, or			
	If yes, describe the dov	vnstream impacts for the 2, 10 and 100 year	r frequency discharges:			
		•	-			
	The pre and post deve	lopment peak flow rates at the downstream	design point are as follows:			
		lopment peak flow rates at the downstream Peak Disch				
	The pre and post deve Return Frequency (Year)	Peak Disch	arges (CFS)			
	Return Frequency					
	Return Frequency	Peak Disch	arges (CFS)			
	Return Frequency (Year)	Peak Disch	arges (CFS)			
	Return Frequency (Year)	Peak Disch	arges (CFS)			
	Return Frequency (Year) 2 10 100 The above peak discha	Peak Disch Pre-Development	arges (CFS)			
	Return Frequency (Year) 2 10 100	Peak Disch Pre-Development	arges (CFS) Post-Development			
	Return Frequency (Year) 2 10 100 The above peak discha	Peak Disch Pre-Development	arges (CFS) Post-Development			
	Return Frequency (Year) 2 10 100 The above peak discha	Peak Disch Pre-Development	arges (CFS) Post-Development			
	Return Frequency (Year) 2 10 100 The above peak discha	Peak Disch Pre-Development	arges (CFS) Post-Development			
	Return Frequency (Year) 2 10 100 The above peak discha	Peak Disch Pre-Development	arges (CFS) Post-Development			
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	Return Frequency (Year) 2 10 100 The above peak discha	Peak Disch Pre-Development	arges (CFS) Post-Development			
	Return Frequency (Year) 2 10 100 The above peak discha	Peak Disch Pre-Development	arges (CFS) Post-Development			
	Return Frequency (Year) 2 10 100 The above peak discha	Peak Disch Pre-Development	arges (CFS) Post-Development			

Section II: Stormwater Management (continued)

Describe the location of	f the design point and why th	is location was chosen:	
☐ Yes	ject include the construction Io If no, skip to subsecti ermined whether a dam cons	of any stormwater detention fa on 3 (Storm Drainage Systel struction permit is required? e downstream design point ar	<i>ms)</i> . □ Yes □ No
Return Frequency		Peak Discharges (CFS)	
(Year)	Pre-Development	Post-Development (without detention)	Post-Development (with detention)
2			
10			
100			
The above peak discha was selected because:	arges were computed utilizing	g the: hour duration stor	rm. This duration storm
Describe the location o	f the design point and why th	is location was chosen:	

Section II: Stormwater Management (continued)

	Wil	he proposed project increases peak flow rates for the 2, 10 or 100 year frequency discharges, describe impacts to downstream areas: I the detention facility aggravate erosion along the downstream channel? Yes No exertain situations, detention of stormwater aggravates downstream flooding. This occurs when the
	dise and	charge from a subwatershed is delayed by a detention facility so that it adds to the peak discharge from other subwatershed. Adding the hydrographs of the two subwatersheds results in a higher peak discharge or that which would occur if detention were not present.
		he location of the detention facility within the watershed suitable for detention?
3.	Sto	orm Drainage Systems
	Do	es the proposed project include the construction of subsurface storm drainage systems?
		Yes
	lf y	ves, complete this subsection:
	a.	DOT Standards - Is the proposed storm drainage system designed in accordance with the Connecticut Department of Transportation's (DOT) Drainage Manual? ☐ Yes ☐ No
		If no, describe the lower design standards and the reasons for not complying with the Drainage Manual:
	b.	Design Storm - Is the storm drainage system designed for a ten year frequency storm without closing the use of the facility? ☐ Yes ☐ No
	C.	Future Development - Has the design of the system considered future development of adjacent properties? Yes No

Section II: Stormwater Management (continued)

d.	Outlet Protection - Have the outlets from the system been designed to minimize the potential for downstream erosion? ☐ Yes ☐ No
e.	Overland Flow - Has the use of curbing been minimized to encourage overland dispersed flow through stable vegetated areas? ☐ No
f.	Vegetated Filter Strips - Has the design incorporated the use of vegetated filter strips or grass swales to improve the quality of water outletting from the storm drainage system? ☐ Yes ☐ No
g.	Stormwater Treatment - Describe features of the stormwater collection system intended to improve the quality of stormwater runoff prior to its discharge to surface waters.
	The site drainage system includes sumps within the proposed catch basins and a hydrodynamic separator to act as pre-treatment which will encourage infiltration and allow for a reduction in sediment leaving the site. In addition the use of curbing was eliminated to encourage sheet flow. The runoff coefficient of the site has been reduced by 0.027.
h.	E & S Control Plan - Has the design and installation of the storm drainage system been coordinated with the soil erosion and sediment control plan prepared in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control? ☐ Yes ☐ No
	Explain:
	Before construction begins, silt fence or haybales will be installed at the limits of all disturbed areas and around existing catch basins within the project limits. Anti-tracking pads will be installed where construction traffic enters/exits the site.
	During construction, the above controls will be maintained. Disturbed slopes will be stabilized with seeding or an erosion control matting. Riprap will be placed at the outlet of the storm system. Construction debris will be regularly removed from the site and dust control measures, including sweeping and spraying, will be used as needed.
	At the end of the project, the temporary sedimentation controls will be removed as the site is stabilized and all structures in the new storm system will be cleaned of sediment.

Section III: State Grants and Loans

Na	me of Applicant:			
Na	me of Proposed Project:			
1.	This Flood Management Certification concerns a:	☐ grant	loan	
2.	Total amount of grant or loan: \$			
3.	The recipient of the grant or loan will be:			
	Name:			
	Mailing Address:			
	City/Town:	State:	Zip Code:	
	Phone:	ext.	Fax:	
	Recipient Contact person:			
	Name:			
	Mailing Address:			
	City/Town:	State:	Zip Code:	
	Phone:	ext.	Fax:	
4.	The recipient will use the grant or loan to (check all that	apply):		
	construct a structure, obstruction or encroachment of high hazard area.	or conduct oth	er work within a floodplain or coastal	
	construct a facility or develop a site affecting drainage	ge and stormv	vater runoff.	
	 conduct a study or prepare a report concerning land drainage or stormwater runoff. 	use or land u	se planning affecting a floodplain,	
5.	If the grant or loan is for a study or report, describe the a stormwater runoff if the recommendations are implemen		ects on floodplains, drainage or	
6.	Will the proposed project promote development in floodpso as to enable floodplain development? Yes	olains or will u	tilities servicing the project be located	
	Explain:			
	If the grant or loan is for construction of a structure, obst floodplain, or if it is for construction of a facility or develo stormwater runoff, Sections I and/or II of this Worksheet (Attachment H) and plans (Attachment G) must be provi	pment of a sit must be com	te that will affect drainage and apleted and the engineering report	

Section IV: Disposal of State Land

Na	me of Applicant:			
Na	me of Proposed Project:			
1.	The grantee will be: Name: Mailing Address: City/Town: Phone: Contact Person:	State: ext. Phone:	Zip Coo	de:
2.	Describe the current state of development and use of the lan		1	
		id to be disposed	1.	
3.	Why is the agency disposing of the land?			
4.	Describe the grantee's intended use of the land.			
5.	Will the disposal of the land promote development in floodpla Explain:	ains? 🗌 Y	es	□ No
6.	Will the grantee's use of the land be consistent with the state ☐ Yes ☐ No Explain:	s's flood manage	ment sta	itutes and regulations?

Attachment I – Flood Contingency Plan

Occum Maintenance Facility Occum State Project No. 103-247

Construction Operation Plan

During construction, the Contractor is bound by the conditions in Section 1.10 of Form 816, which addresses the need for the Contractor to maintain a stable work area and to coordinate with the National Oceanic and Atmospheric Administration (N.O.A.A.) weather service for information pertaining to storms.

In the event of flooding, storage of materials that could be injurious to human health or the environment will be located outside of the 100-year flood zone. Other material or equipment may be stored below the 500 year flood elevation such that the material or equipment is not subject to major damage by floods, and that such material or equipment will be firmly anchored, restrained or enclosed to prevent it from floating away or that such material or equipment can be removed prior to flooding.

Prior to construction, the Contractor will submit to the Engineer for approval, a written flood contingency plan. The plan will include the following:

- A description of the means by which the Contractor will remove from the floodprone areas, all material, equipment and personnel prior to a predicted major storm.
- Provisions for notifying workers engaged in work on the site of an impending storm.
- Provisions for securing work in progress prior to a major storm.

The contract is expected to begin in the spring of 2016 and take fifteen months to construct. At the pre-construction meeting, typically held two weeks prior to construction, appropriate field personnel will be assigned to coordinate activities during construction. The inspection personnel will be assigned through DOT Office of Construction, District 2, Norwich (860-823-3273).

Additionally, DOT Office of Environmental Planning (860-594-2920) will assign personnel to review the Contractor's erosion and sediment control plans. The Department can invoke the "24 hour rule" as prescribed in Form 816, Section 1.10 in order to force the Contractor to correct any deficiencies found on the project affecting environmental issues. The Office of Environmental Planning will oversee the Contractor for the life of the contract as necessary to ensure compliance with all environmental requirements.

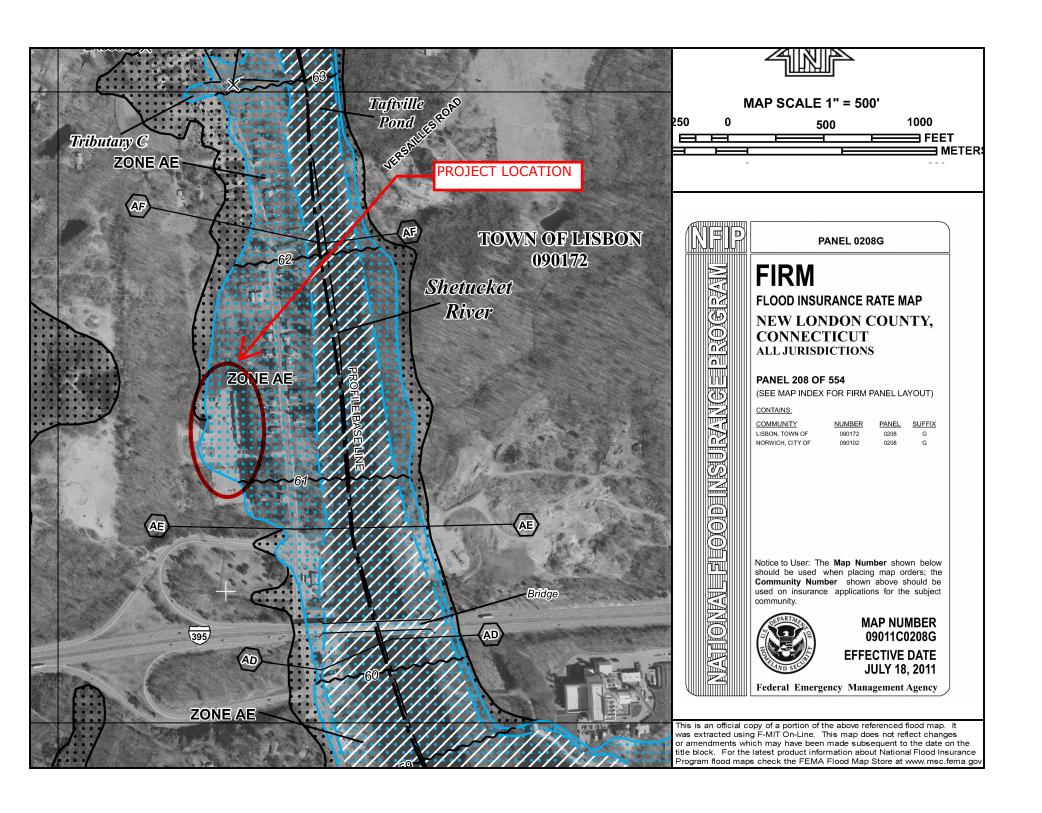
Post-Construction Operation Plan

The Department will maintain responsibility for the integrity of the facility after completion of the project. On-site maintenance staff (860-823-3222) will be responsible for maintaining the site post-construction. Typically, if there are any environmental issues to be addressed, the Office of Environmental Planning should be contacted in order to coordinate any remedial action involving regulated activities.

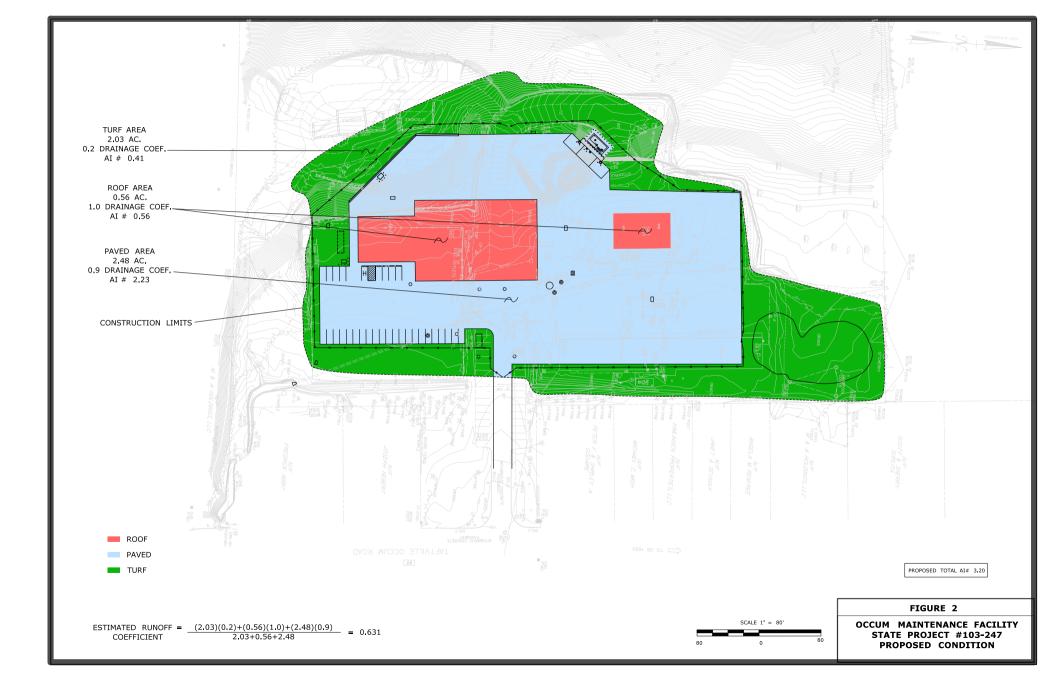
Attachment Q - Other Information

Occum Maintenance Facility Occum State Project No. 103-247

- FEMA Firmette
- Pre-Development Conditions
- Post-Development Conditions
- Cut/Fill quantities within Flood Plain
- Drainage Calculations
- Storage Tank Profile
- Shetucket River Profile
- Erosion and Sedimentation Control Narrative
- Project Managers Meeting (DOT/DEEP/ACOE/EPA) Notes November 20, 2014
- DEEP NDDB Determination No.: 201410848 November 17, 2014
- Reasons for Exemption from Flood Management Certification







FILL vs CUT WITHIN FLOOD PLAIN

TOTAL FLOOD PLAIN

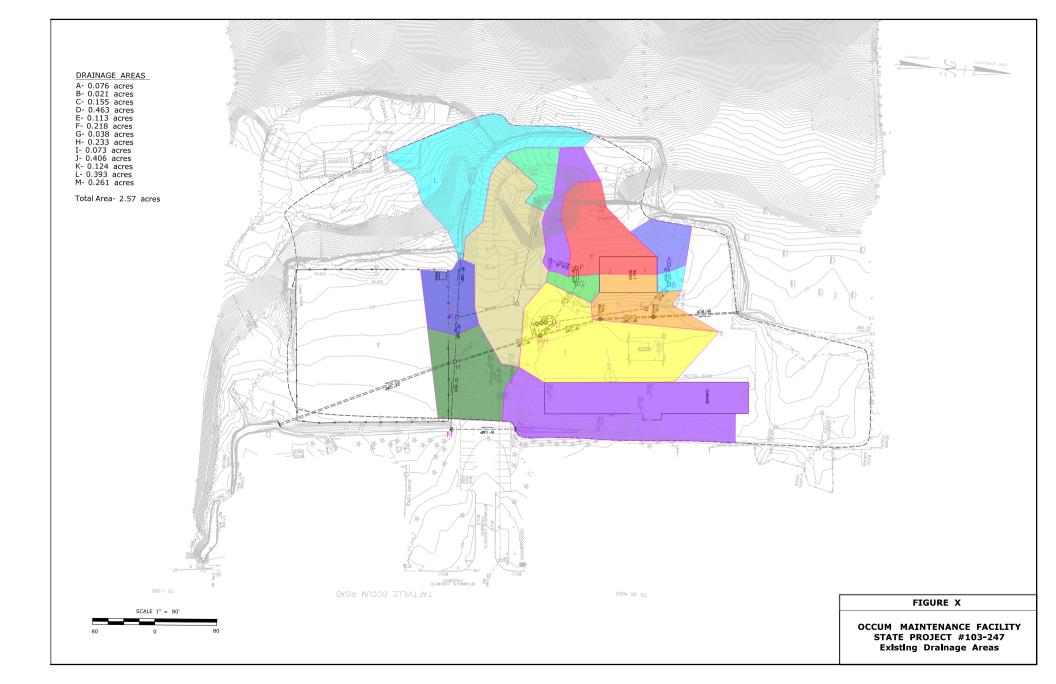
	Fill Floodulain I	pelow elev. 61.0		FILL
	Fill- Floodplain	below elev. 61.0		
	Area	Ave. Δ elev.	Volume (cy)	
Lot/ Turf	43900	0.8	1300.7	
New Bldg	19750	1.49	1089.9	
		Total	2390.6 cy	
				✓ TOTAL
				FLOOD
	Cut- Floodplain (from elev. 61 and	ower)	PLAIN
				CUT
	Area	Ave. Δ elev.	Volume (cy)	
Demo Bldg	10800	2.2	880.0	
Lot		0.5	82.4	
Basin	14800	2.7	1480.0	
		Total	2442.4 cy	

Project No.: 103-247 Computed By: Malissa Carvalho Date: 4/15/2015 Town: Occum

Route: Checked By: Date:

System:

	Existing Storm Drainage System (25 year storm)																				
Sta	ition	Draina	A ge Area res)	C - Run	Α	AC T _c				I - Rair	Q 5	Pipe		Pipe		Velocity (fps)		Invert Elevations (ft)		He	
From	То	Increment	Total	Runoff Coefficient	Increment	Total	To Inlet	In Pipe	Accumulated	Rainfall Intensity	n System	Size (in.)	Length (ft.)	Slope (ft/ft)	· Full Capacity (cfs)	$ m f V_F$ Flowing Full	V Design Flow	Uppper End	Lower End	Headwater	"n"
А	В	0.076	0.076	0.66	0.050	0.050	10.00	0.16	10.16	5.5	0.28	12	21	0.007	3.13	3.7	2.1	55.72	55.58	0.5	0.013
В	С	0.021	0.097	0.9	0.019	0.069	10.16	0.25	10.41	5.5	0.38	12	36.7	0.007	3.22	3.8	2.4	55.53	55.27	0.5	0.013
С	D	0.155	0.252	0.93	0.144	0.213	10.41	0.65	11.06	5.4	1.16	12	117	0.005	2.61	3.1	3.0	55.22	54.68	0.5	0.013
Е	F	0.113	0.113	0.8	0.090	0.090	10.00	0.38	10.38	5.5	0.50	15	31.8	0.001	2.47	1.9	1.4	55.27	55.23	0.6	0.013
F	G	0.218	0.331	0.8	0.174	0.265	10.38	0.05	10.43	5.4	1.44	15	15.4	0.020	9.71	7.4	5.2	55.18	54.88	0.6	0.013
G	D	0.038	0.369	0.9	0.034	0.299	10.43	0.30	10.73	5.4	1.62	15	52.9	0.004	4.27	3.2	3.0	54.83	54.63	0.7	0.013
D	MH	0.463	1.08	0.9	0.417	0.93	11.06	0.05	11.11	5.3	4.91	15	20.8	0.015	8.62	6.6	6.8	54.88	54.56	0.9	0.013
MH	Н	0.000	1.08	0	0.000	0.93	11.11	0.48	11.59	5.3	4.90	18	113	0.004	6.80	3.6	3.9	54.01	53.60	0.8	0.013
1	J	0.073	0.073	0.76	0.055	0.055	10.00	1.15	11.15	5.5	0.31	15	130	0.005	4.87	3.7	1.9	56.02	55.38	0.6	0.013
J	K	0.406	0.48	0.8	0.325	0.38	11.15	0.48	11.63	5.3	2.01	15	75.7	0.002	3.29	2.5	2.6	54.48	54.31	0.6	0.013
L	K	0.393	0.393	0.39	0.153	0.153	10.00	0.46	10.46	5.5	0.84	15	79.3	0.004	5.37	4.1	2.9	56.39	56.11	0.6	0.01
K	Н	0.124	1.00	0.59	0.073	0.61	11.63	0.19	11.82	5.2	3.14	15	52.8	0.008	6.12	4.7	4.7	54.21	53.80	0.6	0.013
М	Н	0.261	0.261	0.61	0.159	0.159	10.00	0.54	10.54	5.5	0.88	15	85.2	0.005	4.76	3.6	2.6	54.60	54.20	0.6	0.013
Н	N	0.233	2.574	0.77	0.179	1.874	11.82	1.16	12.99	5.1	9.63	24	238	0.002	9.86	2.9	3.4	53.55	53.16	1.0	0.013



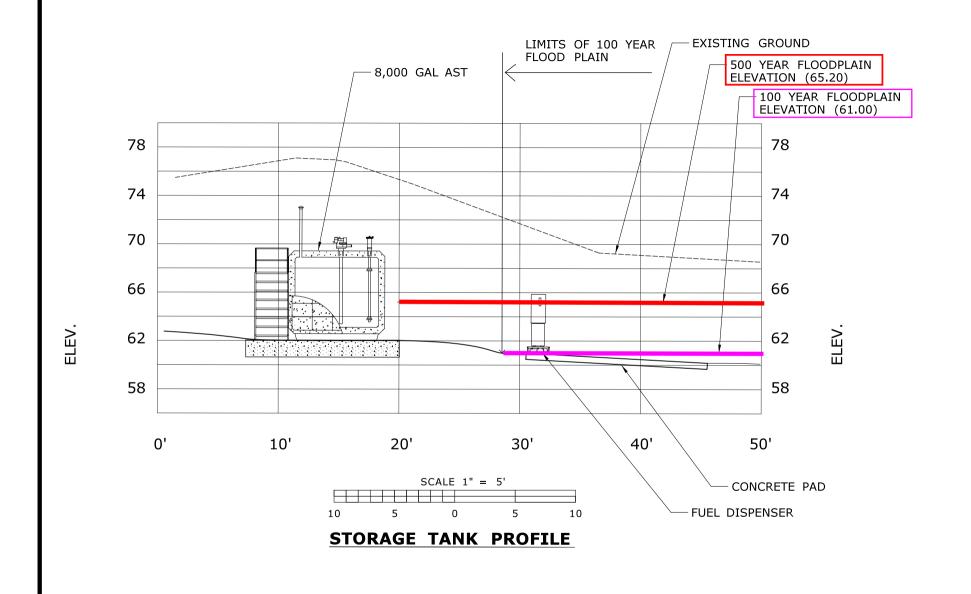
Project No.: 103-247 Computed By: Malissa Carvalho Date: 4/15/2015
Town: Occum

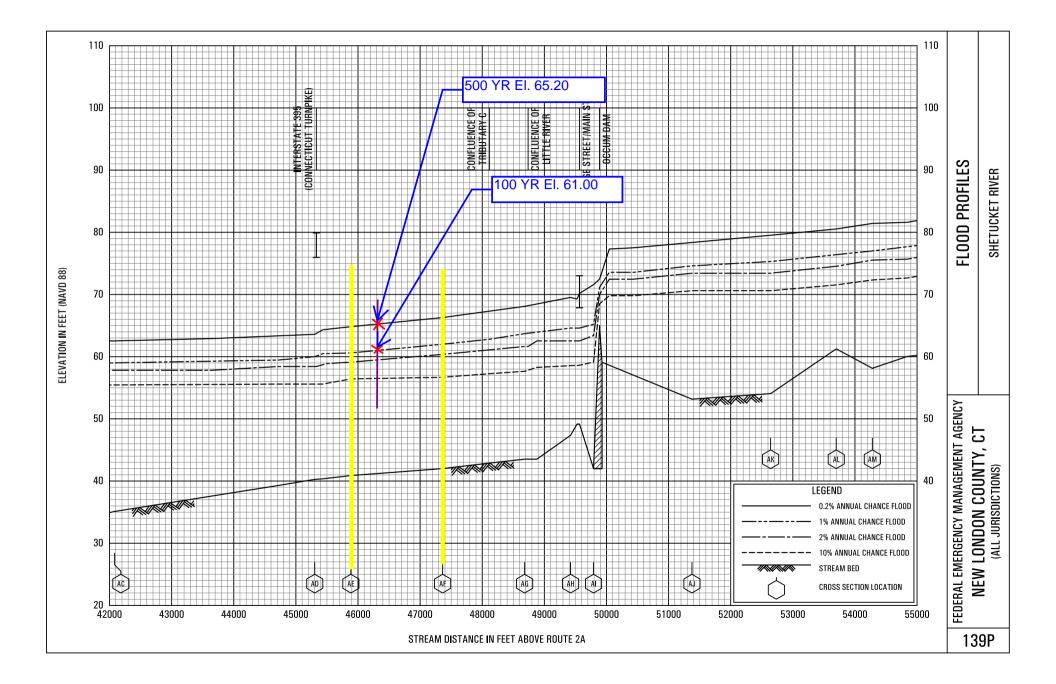
Route: Checked By: Date:

System:

	Proposed Storm Drainage System (25 year storm)																				
Station [-	A ge Area res)	C - Run	' 40		T _c	Fi (min)	ow Time	I- Rair			Pipe		Q _F -F	Velocity (fps)		Invert Elevations (ft)		He	
From	To	Increment	Total	Runoff Coefficient	Increment	Total	To Inlet	In Pipe	Accumulated	Rainfall Intensity	n System	Size (in.)	Length (ft.)	Slope (ft/ft)	Full Capacity (cfs)	V _F Flowing Full	V Design Flow	Uppper End	Lower End	Headwater	"n"
A1	А	0.025	0.025	0.2	0.005	0.005	10.00	0.68	10.68	5.5	0.03	12	42	0.055	8.97	10.7	1.0	62.50	60.20	0.5	0.013
Α	В	0.110	0.135	0.23	0.025	0.030	10.68	1.14	11.81	5.4	0.16	12	126	0.007	3.20	3.8	1.8	56.20	55.32	0.5	0.013
В	С	0.736	0.871	0.63	0.464	0.494	11.81	0.24	12.06	5.1	2.54	12	54	0.005	2.71	3.2	3.7	55.32	55.05	0.5	0.013
D	Е	0.039	0.039	0.93	0.036	0.036	10.00	0.19	10.19	5.5	0.20	12	21	0.007	3.13	3.7	1.9	55.72	55.58	0.5	0.013
E	F	0.045	0.084	0.9	0.041	0.077	10.19	0.25	10.43	5.5	0.42	12	37	0.007	3.21	3.8	2.5	55.53	55.27	0.5	0.013
F	С	0.053	0.137	0.93	0.049	0.126	10.43	0.70	11.13	5.4	0.68	12	110	0.005	2.69	3.2	2.6	55.22	54.68	0.6	0.013
С	G	0.117	1.13	0.9	0.105	0.73	12.06	0.06	12.12	5.1	3.69	15	15	0.005	4.75	3.6	4.0	54.79	54.72	0.9	0.013
G	1	0.000	1.13	0	0.000	0.73	12.12	0.02	12.14	5.1	3.69	15	15	0.085	20.22	15.4	11.2	55.67	54.40	0.6	0.013
J	ı	0.390	0.390	0.91	0.355	0.355	10.00	0.58	10.58	5.5	1.95	12	122	0.005	2.71	3.2	3.5	55.10	54.49	0.5	0.013
1	K	0.000	1.52	0	0.000	1.08	12.14	0.78	12.92	5.1	5.49	18	168	0.003	5.91	3.1	3.6	54.10	53.64	0.8	0.013
L	K	0.476	0.476	1	0.476	0.476	5.00	0.16	5.16	6.7	3.19	12	62	0.010	4.98	5.9	6.3	54.26	53.64	0.5	0.01
K	Р	0.000	1.99	0	0.000	1.56	12.92	0.41	13.33	5.0	7.79	24	97	0.003	12.60	3.7	3.9	53.64	53.38	1.0	0.013
М	N	0.275	0.275	0.61	0.168	0.168	10.00	0.73	10.73	5.5	0.92	12	125	0.005	2.72	3.2	2.9	59.20	58.57	0.5	0.013
N	0	0.188	0.463	0.9	0.169	0.337	10.73	0.41	11.14	5.4	1.80	12	86	0.005	2.71	3.2	3.5	58.57	58.14	0.5	0.013
0	Р	0.256	0.719	0.22	0.056	0.393	11.14	0.53	11.67	5.3	2.07	12	174	0.016	4.90	5.8	5.5	58.14	55.30	0.5	0.013
Р	Outlet	0.000	2.71	0	0.000	1.95	13.33	0.33	13.66	4.9	9.62	24	82	0.003	12.60	3.7	4.2	53.38	53.16	1.0	0.013







Erosion and Sedimentation Control

CT DOT will have construction inspection personnel assigned to the project in order to oversee the Contractor's operations to insure compliance with the provisions of the Standard Specifications. Further CT DOT oversight is provided by the District 2 Environmental Coordinator and the Office of Environmental Planning.

The following timelines will be followed for the proposed construction activities:

- If construction activities are complete or have been temporarily halted for more than seven (7) days, stabilization activities will be implemented within three (3) days.
- When final grades are completed in any part of the site, stabilization activities will be implemented within 3 days.
- Disturbed areas that do not establish a vegetative cover within 30 days of seeding shall have erosion control blankets installed. Prior to the erosion control blanket installation, the soil would be prepared with the application of lime, fertilizer, and seed.
- Areas that will be disturbed past the planting season will be covered with a long-term, non-vegetative stabilization method that will provide protection through the winter.
- Stabilization practices will be implemented as quickly as possible in accordance with the Guidelines.
- The Contractor shall stabilize disturbed areas with temporary or permanent measures as quickly as possible after the land is disturbed. Driveway roadbed shall be stabilized immediately upon completion of rough grading with compacted road aggregate. Requirements for soil stabilization are detailed in Form 816 article 1.10.03, 7/32 Best Management Practices.

Temporary Stabilization Practices:

- <u>Erosion Control Matting</u>: Matting shall be used to stabilize the topsoil on disturbed slopes where a stable, vegetated cover is not established within 30 days, or on temporary slopes steeper than 2:1.
- Silt Fence: Silt fence shall be placed at the toe of all disturbed slopes.
- <u>Anti-Tracking Pads</u>: Construction entrances (gravel anti-tracking pads) shall be constructed at truck access points to off –road route.
- <u>Dust Control</u>: Routine sweeping and application of dust suppression agents, including water and calcium chloride, over exposed subbase shall be completed for dust control.

Stabilization practices shall be implemented no more than three days after completion, as final grades are reached, or if work has been suspended for more than seven days.

Temporary seeding shall be spread over any disturbed areas which will remain inactive for at least 30 days. Areas to remain disturbed through winter shall be protected with non-vegetative stabilization measures. The Contractor must provide an Erosion and Sedimentation Control plan for each winter season during construction operations.

The Contractor may use other controls in the project as necessary if they conform to the 2002

Connecticut Erosion and Sedimentation Guidelines and are approved by the Engineer. The contractor will be required to provide the necessary details for any erosion controls not specifically called for on the project plans.

Permanent Stabilization Practices:

All new embankments disturbed by construction and unpaved areas that are graded or disturbed by construction will receive topsoil and turf establishment or landscape plantings. The Contractor may use other permanent stabilization practices approved by the Engineer and conforming to Connecticut's Erosion and Sedimentation Control Guidelines (2002).

Maintenance:

All construction activities and related activities shall conform to the requirements of Section 1.10 "Environmental Compliance" of ConnDOT's Standard Specifications, Form 816. In general, all construction activities shall proceed in such a manner so as not to pollute any wetlands, watercourses, water body, and conduit carrying stormwater. The Contractor shall limit, in so far as possible, the surface area of earthen materials exposed by construction activity and immediately provide temporary and permanent pollution control to prevent soil erosion and contamination on the site. Water pollution control provisions and best management practices per Article 1.10.03 of the Standard Specifications shall be administered during construction.

Inspection Guidelines:

Item

During construction, all areas disturbed by the construction activity that have not been stabilized, structural control measures, and locations where vehicles enter or exit the site shall be inspected at least once every seven calendar days. These areas shall also be inspected within 24 hours following any storm in which 0.1 inches or greater of rain occurs.

Qualified personnel provided by the DOT District 2 Office shall conduct inspections.

Items to be inspected: the following items shall be inspected as described below:

Procedure

	2.7000000
Silt Fence	Silt fence shall be inspected to ensure that the fence line is intact with no breaks or tears. The fence shall be firmly
	anchored to the ground. Areas where the fence is excessively sagging or where support posts are broken or

uprooted shall be noted. Depth of sediment behind the

fence shall be noted.

Catch Basin Protection Protective measures shall be inspected to insure that

sediment is not entering the catch basins. Catch basin sumps shall be monitored for sediment deposition. Hay bales shall be inspected to insure they have not clogged.

Vehicle Entrances / Exits Locations where vehicles enter or exit the site shall be

inspected for evidence of off-site tracking.

General Construction areas and the perimeter of the site shall be

inspected for any evidence of debris that may blow or wash off site or that has blown or washed off site. Construction areas shall be inspected for any spills or unsafe storage of

materials that could pollute off site waters.

Post-construction Guidelines:

After the project is complete, the Department will perform the following maintenance and restorative measures:

- Litter/debris will be removed from the site regularly.
- Mowing and maintenance of the turf areas and vegetated areas will occur as needed.
- Drainage structure sumps will be inspected regularly and sediment will be removed when sumps are more than half full.
- Riprap outlet protection will be inspected and repaired annually or as needed.
- Stone check dams will be inspected and repaired annually or as needed. Sediment will be removed when it reaches half the height of the check dam.



DEEP / DOT REGULATORY COORDINATION



Project Meeting Notes

DOT Project Number: 103-247

Project Description: Occum Maintenance Facility

Town (s): Occum

Meeting Date (s): 11/20/2014 Fisheries Correspondence Status: NDDB Correspondence Status:

Department Priority:

Current FDP:

DOT Design Contact: Svetlana Kaminsky/ Matt Easdon

Project Purpose & Need:

Meeting Date #1: - November 20, 2014

Transactions and Determinations:

- This project consists of the Occum Maintenance Facility replacement.
- The existing fuel island will also be replaced.
- This will require 2,390 cubic yards of fill in the 100 year floodplain.
- 2,440 cubic yards of flood storage capacity will be created by the construction of a Retention Basin.
- The fill in the floodplain is a critical activity because of the motor fuel tank. The fuel dispenser is within the 500 year floodplain elevation.
- Wetland impacts 3,600 square feet.
- The retention basin, which is located in the 100 year flood plain will be designed as a rain garden, if possible, and this will count as mitigation for the project.
- The permits for this project will require a FMC Exemption, IW GP, and an ACOE CAT 1.

Agency comments:

Commitments Reached:

Transactions and Determinations:

Permit needs:



November 17, 2014

Michael Salter State Of Connecticut Department Of Transportation 2800 Berlin Tpke. Newington, CT 06131 michael.salter@ct.gov

Project: Facility Renovations at Occum Maintenance Facility Located at 122 Taftville-Occum Road in

Norwich

NDDB Determination No.: 201410848

Dear Michael Salter,

I have reviewed Natural Diversity Data Base (NDDB) maps and files regarding the area delineated on the map provided for the proposed Facility Renovations at Occum Maintenance Facility Located at 122 Taftville-Occum Road in Norwich, Connecticut. I do not anticipate negative impacts to State-listed species (RCSA Sec. 26-306) resulting from your proposed activity at the site based upon the information contained within the NDDB. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits. This determination is good for one year. Please re-submit an NDDB Request for Review if the scope of work changes or if work has not begun on this project by November 17, 2015.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available.

Please contact me if you have further questions at (860) 424-3592, or $\underline{\text{dawn.mckay@ct.gov}}$. Thank you for consulting the Natural Diversity Data Base.

Sincerely,

Dawn M. McKay

Coun m. mokay

Environmental Analyst 3

Reasons for Exemption from Flood Management Certification:

State Project No. 103-247

- 1. This project is in the public interest. The site serves a critical location for the Department's roadway maintenance operations. It serves Interstate 395, a vital artery running through Eastern Connecticut as well as State roads in Occum and immediate vicinities. The purpose of this project is to replace the existing maintenance facility and to renovate the existing salt shed. The project scope includes the upgrade of the maintenance facility and the storage tanks in order to comply with Department of Energy and Environmental Protection regulations. The new maintenance facility and above ground storage tanks will be moved above the 100 year flood elevation. Many layout options were explored during the design process. Due to site constraints, such as existing inland wetlands and limited DOT property, it was impossible to locate the maintenance facility and above ground storage tank at the 500 year floodplain elevation (65.2') which is approximately 4' above the ground elevation.
- 2. The proposed scope of work will not cause harm of any kind to persons or property. The aboveground storage tank for diesel fuel and replacement of the heating oil underground storage tank will be flood proof. All the valves installed under this project will also be flood proof.
- 3. The proposed project is in compliance with National Flood Insurance Program (NFIP) requirements.



Connecticut Department of Energy & Environmental Protection

	CPPU USE ONLY
App #:	
Doc #:	
Check #:	

FM-201503316

Permit Application Transmittal Form

Please complete this transmittal form in accordance with the instructions in order to ensure the proper handling of your application(s) and the associated fee(s). Print legibly or type.

Part I: Applicant Information:

- *If an applicant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, applicant's name shall be stated exactly as it is registered with the Secretary of State.
- If an applicant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

Applicant: Connecticut Department of Transportation						
Mailing Address: 2800 Berlin Turnpike, P.O. Box 317546						
City/Town: Newington	State: CT	Zip Code: 06131-7546				
Business Phone: 860-594-2931	ext.:					
Contact Person: Mark W. Alexander	Contact Person: Mark W. Alexander Phone: 860-594-2931 ext.					
E-Mail: Mark.W.Alexander@ct.gov						
Applicant (check one): ☐ individual ☐ *business entity ☐ federal agency ☐ state agency ☐ municipality ☐ tribal *If a business entity, list type (e.g., corporation, limited partnership, etc.): ☐ Check if any co-applicants. If so, attach additional sheet(s) with the required information as supplied above.						
Please provide the following information to be used for billing purposes only, if different:						
Company/Individual Name:						
Mailing Address:						
City/Town:	State:	Zip Code:				
Contact Person:	Phone:	ext.				

Part II: Project Information

DEEP

Management

Certification

Brief Description of Project: (Example: Development of a 50 slip marina on Long Island Sound)							
Occum Maintena	nce Facility, Occum	n					
	-						
Location (City/Town): Occum - State Project No. 103-247							
Other Project Related Permits (not included with this form):							
Permit Description	Issuing Authority	Submittal Date	Issuance Date	Denial Date	Permit #		
Flood							

5/12/2015

DEEP-APP-001 1 of 6 Rev. 04/16/15

10/9/2015

Part III: Individual Permit Application and Fee Information

New, Mod. or Renew	Individual Permit Applications	Initial Fees	No. of Permits Applied For	Total Initial Fees	Original + Required Copies
	AIR EMISSIONS				
	New Source Review ☐ Revision ☐ minor mod	\$940.00			1 + 0
	Title V Operating Permits ☐ Revision ☐ minor mod ☐ non-minor mod	none			1+0
	Title IV	none			1+0
	Clean Air Interstate Rule (CAIR)	none			1+0
	WATER DISCHARGES				
	To Groundwater	\$1300.00			1+1
	To Sanitary Sewer (POTW)	\$1300.00			1+1
	To Surface Water (NPDES)	\$1300.00			1+1
	INLAND WATER RESOURCES-				
	Dam Safety	none			1 + 2
	Flood Management Certification	none			1+1
	Inland Wetlands and Watercourses	none			
	Inland 401 Water Quality Certification	none			1 + 5
	FERC- Hydropower Projects- 401 Water Quality Certification	none			1 +1
	Water Diversion	*			1 + 5
	OFFICE OF LONG ISLAND SOUND PROGRAMS				
	Certificate of Permission	\$375.00			1 + 2
	Coastal 401 Water Quality Certification	none			1 + 2
	Structures and Dredging/and Fill/Tidal Wetlands	\$660.00			1 + 2
	WASTE MANAGEMENT				
	Aerial Pesticide Application	*			1 + 2
	Aquatic Pesticide Application	\$200.00			1 + 0
	CGS Section 22a-454 Waste Facilities	*			1+1
	Disruption of a Solid Waste Disposal Area	\$0			1+1
	Hazardous Waste Treatment, Storage and Disposal Facilities	*			1+1
	Marine Terminal License	\$100.00			1+0
	Stewardship	\$4000.00			1+1
	Solid Waste Facilities	*			1+1
	Waste Transportation	*			1 + 0
		Subtotal =			
	GENERAL PERMITS and AUTHORIZATIONS Subtota	als Page 3 &4 ➡			
		otals Page 5	1	\$2500	
	1 -	otals Page 6			
	ТС	OTAL ➡	1	\$2500	
Indicate whether municipal discount or state waiver applies. Less Applicable Discount					
		AMOUNT REMI	TTED =	0	
Check	# => Check or money order sho				

[★] See fee schedule on individual application.

Part IV: General Permit Registrations and Requests for Other Authorizations Application and Fee Information

✓	General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fees	Original + Required Copies
	AIR EMISSIONS				
	Limit Potential to Emit from Major Stationary Sources of Air Pollution	\$2760.00			1 + 0
	Diagnostic and Therapeutic X-Ray Devices (Medical X-Ray) Registration	\$190.00/Xray device			1 + 0
	Radioactive Materials and Industrial Device Registration (Ionizing Radiation)	\$200.00			1+0
	Emergency/Temporary Authorization	**			**
П	License Revocation Request	\$0			**
	Other, (please specify):				
	WATER DISCHARGES				
	Boiler Blowdown Wastewater	Expired- wa	stewater disch	arge authorized und	er MISC GP
	Categorical Industry User to a POTW Discharges > 10,000 gpd Discharges < 10,0000 gpd	\$6250.00 \$3125.00			1 + 0
	Domestic Sewage	\$625.00			1 + 0
	Food Preparation Establishment Wastewater		No Re	gistration	
	Food Processing Wastewater	\$500.00			1 + 0
	Groundwater Remediation Wastewater to a Sanitary Sewer	\$500.00			1+0
	Groundwater Remediation Wastewater to a Surface Water Registration Only Approval of Registration by DEEP	\$625.00 \$1250.00			1+0
	Hydrostatic Pressure Testing Wastewater Registration Only Approval of Registration by DEEP (natural gas pipelines)	\$625.00 \$1250.00			1+0
	Miscellaneous Discharges of Sewer Compatible Wastewater Registration Only Approval of Registration by DEEP	\$500.00 \$1000.00			1 + 0
	Nitrogen Discharges		No Re	gistration	
	Non-Contact Cooling and Heat Pump Water (Minor)	\$625.00			1 + 0
	Photographic Processing Wastewater (Minor)	Expired- wa	stewater disch	arge authorized und	er MISC GP
	Point Source Discharges from Application of Pesticides	\$200.00			1 + 0
	Printing & Publishing Wastewater (Minor) Flow < 40 gpd	\$500.00 \$100.00			1+0
	Stormwater Associated with Commercial Activities	\$300.00			1 + 0
	Stormwater Associated with Industrial Activities <50 employees–see general permit for additional requirements >50 employees–see general permit for additional requirements	\$500.00 \$1000.00			1 + 0
	Stormwater & Dewatering Wastewaters-Construction Activities	*			1 + 0
	Stormwater from Small Municipal Separate Storm Sewer Systems (MS4)	\$250.00			1 + 0

[★] See fee schedule on registration/application.

^{**} Contact the specific permit program for this information. (Contact numbers are provided in the instructions)

Part IV: General Permit Registrations and Requests for Other Authorizations (continued)

☐ Subsurface Sewage Disposal Systems Serving Existing Facilities	* *		1 + 0
☐ Swimming Pool Wastewater - Public Pools and Contractors	\$500.00		1+0
☐ Tumbling or Cleaning of Parts Wastewater (Minor)	Expired- wastewater	discharge authoriz	ed under MISC GP
Vehicle Maintenance Wastewater ☐ Registration Only ☐ Approval of Registration by DEEP	\$625.00 \$1250.00		1+0
☐ Water Treatment Wastewater	\$625.00		1+0
☐ Emergency/Temporary Authorization - Discharge to POTW	\$1500.00		1 + 0
☐ Emergency/Temporary Authorization - Discharge to Surface Water	\$1500.00		1 + 0
☐ Emergency/Temporary Authorization - Discharge to Groundwater	\$1500.00		1+0
Other, (please specify):			

**

Contact the specific permit program for this information. (Contact numbers are provided in the instructions)

See fee schedule on registration/application.

Part IV: General Permit Registrations and Requests for Other Authorizations (continued)

✓	General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fee	Original + Required Copies
	AQUIFER PROTECTION PROGRAM				
	Registration for Regulated Activities	\$625.00			1 + 0
	Permit Application to Add a Regulated Activity	\$1250.00			1 + 0
	Exemption Application from Registration	\$1250.00			1 + 0
	INLAND WATER RESOURCES				
	Diversion of Remediation Groundwater		No Re	gistration	
	Diversion of Water for Consumptive Use: Reauthorization Categories	\$1000.00			1 + 2
	Diversion of Water for Consumptive Use: Authorization Required	\$2500.00			1 + 4
	Diversion of Water for Consumptive Use: Filing Only	\$1500.00			1 + 4
	Programmatic General Permit	*			1 +3
П	Water Resource Construction Activities	*			1 +0
П	Emergency/Temporary Authorization	**			**
П	Notice of High Hazard Dam or a Significant Hazard Dam	\$0			1 +0
	Other, (please specify): Water Resource Construction Activities		1	\$2500	
	OFFICE OF LONG ISLAND SOUND PROGRAMS				
П	4/40 Docks	\$700.00			1+1
	Beach Grading	\$100.00			1+1
	Buoys or Markers	No Registration			
	Coastal Remedial Activities Required by Order	\$700.00	NO NO		1+1
	Dock Reconstruction	\$300.00			1+1
	Harbor Moorings	No Registration			
	Maintenance of Catch Basins and Tide Gates			gistration	
	Marina and Mooring Field Reconfiguration	\$700.00	NO NO		1+1
	Minor Seawall Repair	Ψ. σσ.σσ	No Re	gistration	
П	Non-harbor Moorings	\$100.00		<u></u>	1+1
	Osprey Platforms and Perch Poles	none			1+1
	Pump-out Facilities (no fee for Clean Vessel Act grant recipients)	\$100.00			1+1
	Programmatic General Permit	*			1+1
	Removal of Derelict Structures	\$100.00			1+1
	Residential Flood Hazard Mitigation	\$100.00			1+1
<u> </u>	· ·	,			
	Swim Floats	\$100.00 ★★			1+1
	Emergency/Temporary Authorization Other, (please specify):				
L N		ototal 🖶	1	\$2500	
IN	ote. Carry subtotals over to Fart III, page 2 of this form.	Jiolai 🔫	ı	⊅ ∠300	

^{*}See fee schedule on registration/application.

**Contact the specific permit program for this information.

(Contact numbers are provided in the instructions)

Part IV: General Permit Registrations and Requests for Other Authorizations (continued)

✓	General Permits and Other Authorizations	Initial Fees	No. of Permits Applied For	Total Initial Fee	Original + Required Copies
	WASTE MANAGEMENT				
	Addition of Grass Clippings at Registered Leaf Composting Facilities	\$500.00			1 + 0
	Beneficial Use Determination	*			1 + 0
	Certain Recycling Facilities:				
	Drop-site Recycling Facility	\$200.00			1 + 0
	Limited Processing Recycling Facility	\$500.00			1 + 0
	Recyclables Transfer Facility	\$500.00			1 + 0
	Single Item Recycling Facility	\$500.00			1 + 0
	Collection and Storage of Post Consumer Paint	\$0			1 + 0
	Contaminated Soil and/or Staging Management (Staging/Transfer) New Registrations New Approval of Registrations Renewal of Registrations Renewal of Approval of Registrations	\$250.00 \$1500.00 \$250.00 \$750.00			1 + 0 1 + 0 1 + 0 1 + 0
	Connecticut Solid Waste Demonstration Project	\$1000.00			1+0
	Disassembling Used Electronics	\$2000.00			1+0
	Leaf Composting Facility	none			1+1
	Municipal Transfer Station	\$800.00			1+1
	One Day Collection of Certain Wastes and Household Hazardous Waste	\$1000.00			1 + 0
	Sheet leaf Composting Notification	\$0			**
	Special Waste Authorization Landfill or RRF Disposal Asbestos Disposal homeowner	\$660.00 \$300.00 \$0			1+0
	Storage and Processing of Asphalt Roofing Shingle Waste	\$2500.00			1 + 0
	Storage and Processing of Scrap Tires for Beneficial Use	\$1250.00			1+0
	Emergency/Temporary Authorization	**			**
	Other, (please specify):				
	REMEDIATION				
	In Situ Groundwater Remediation: Enhance Aerobic Biodegradation	*			1 + 2
	In Situ Groundwater Remediation: Chemical Oxidation	\$500.00			1 + 0
	Emergency/Temporary Authorization	*			**
No	ote: Carry subtotals over to Part III, page 2 of this form.	ototal 🖶			

[★]See fee schedule on registration/application.

(Contact numbers are provided in the instructions)

Affirmative Action, Equal Employment Opportunity and Americans with Disabilities

The Connecticut Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer that is committed to complying with the requirements of the Americans with Disabilities Act (ADA). Please contact us at (860) 418-5910 or deep.accommodations@ct.gov if you: have a disability and need a communication aid or service; have limited proficiency in English and may need information in another language; or if you wish to file an ADA or Title VI discrimination complaint.

^{**}Contact the specific permit program for this information.



Request for Authorization Form for the General Permit for Water Resource Construction Activities

Please complete this form in accordance with the <u>general permit</u> (DEEP-IWRD-GP-013) to ensure the proper handling of your request. Print or type unless otherwise noted. You must submit the fee along with this completed form.

CPPU USE ONLY
App #:
Doc #:
Check #:
Program: GP IWRD Construction Activities

Part I: Request and Fee Type

Check the appropriate box identifying the request type.

Part II: Requestor Information

- If a requester is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, requester's name shall be stated exactly as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of State's database (CONCORD). (www.concord-sots.ct.gov/CONCORD/index.jsp)
- If a requester is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).
- If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the Request to Change Company/Individual Information to the address indicated on the form. If there is a change in name of the entity holding a DEEP license or a change in ownership, contact the Office of Planning and Program Development (OPPD) at 860-424-3003. For any other changes you must contact the specific program from which you hold a current DEEP license.

1.	Requester Name: Connecticut Department of Transportation					
	Mailing Address: 2800 Berlin Turnpike, P.O. Box 317546					
	City/Town: Newington	State: CT Zip Code: 06131-7546				
	Business Phone: 860-594-2931	ext.:				
	Contact Person: Mark W. Alexander	Phone: 860-594-2931 ext.				
	E-mail: Mark.W.Alexander@ct.gov					
	*By providing this e-mail address you are agreeing to receive department, at this electronic address, concerning the subject security settings to be sure you can receive e-mails from "ct. department if your e-mail address changes."	ct request. Please remember to check your				
a)	Requester Type (check one):					
	☐ individual ☐ federal agency ☐ state ag	gency municipality tribal				
	☐ *business entity (*If a business entity complete i through	iii):				
	i) check type: corporation limited liability company limited partnership statutory trust Other:					
	ii) provide Secretary of the State business ID #:	This information can be accessed at DNCORD/index.jsp)				
	iii)	e Secretary of State's office.				
	Check here if any co-registrants. If so, attach additional sheet above.	(s) with the required information as requested				
b)	Requester's interest in property at which the proposed activit	y is to be located:				
•		easement holder operator				
	other (specify):					

Part II: Requestor Information (continued)

2.	Billing contact, if different than the requester.		
	Name:		
	Mailing Address:		
	City/Town:	State:	Zip Code:
	Business Phone:	ext.	
	Contact Person:	Title:	
	Email:		
3.	Primary contact for departmental correspondence and i	nquiries, if diffe	erent than the requester.
	Name:		
	Mailing Address:		
	City/Town:	State:	Zip Code:
	Business Phone:	ext.	
	Contact Person:	Title:	
	Email:		
	*By providing this e-mail address you are agreeing to receiv department, at this electronic address, concerning the subje security settings to be sure you can receive e-mails from "ct department if your e-mail address changes.	ct request. Plea	se remember to check your
4.	Attorney or other representative, if applicable:		
	Firm Name:		
	Mailing Address:		
	City/Town:	State:	Zip Code:
	Business Phone:	ext.	
	Attorney:		
	Email:		
5.	Site Owner, if different than the requester.		
	Name:		
	Mailing Address:		
	City/Town:	State:	Zip Code:
	Business Phone:	ext.	
	Contact Person:	Title:	
	Email:		

Part II: Requestor Information (continued)

6.	Engineer(s) or other consultant(s) employed or retained to assist in preparing the request or in designing or constructing the activity.					
	Name: Gregory M. Dorosh					
	Mailing Address: 2800 Berlin Turnpike					
	City/Town: Newington State: CT Zip Code: 06131					
	Business Phone: 860-294-3300 ext.					
	Contact Person: John W. Waleszczyk Title: Project Manager					
	Email: John.Waleszczyk@ct.gov					
	Service Provided: Preparation of Permit/Engineering					
	☐ Check here if additional sheets are necessary, and label and attach them to this sheet.					

Part III: Site Information

1.	SITE NAME AND LOCATION
	Name of Site: Occum Maintenance Facility
	Street Address or Location Description: 125 Taftville Occum Road
	City/Town: Occum State: CT Zip Code: 06360
	Tax Assessor's Reference: Map Block Lot
	Latitude and longitude of the exact location of the proposed activity in degrees, minutes, and seconds or in decimal degrees: Latitude: 41^-35'-17" N Longitude: 72^- 02'-56" W
	Method of determination (check one):
	☐ GPS ☐ USGS Map ☐ Other (please specify): Google Earth
	If a USGS Map was used, provide the quadrangle name:
2.	INDIAN LANDS: Is or will the facility be located on federally recognized Indian lands? ☐ Yes ☐ No
3.	COASTAL BOUNDARY: Is the activity which is the subject of this registration located within the coastal boundary as delineated on DEEP approved coastal boundary maps? ☐ Yes ☒ No
	If yes, and this registration is for a new authorization, or a modification of an existing authorization where the physical footprint of the subject activity is modified, you must submit a <u>Coastal Consistency Review Form</u> (DEEP-APP-004) with your registration as Attachment C.
	Information on the coastal boundary is available at www.cteco.uconn.edu/map_catalog.asp (Select the town and then select coastal boundary. If the town is not within the coastal boundary you will not be able to select the coastal boundary map.) or the local town hall or on the "Coastal Boundary Map" available at DEEP Maps and Publications (860-424-3555).

Part III: Site Information (continued)

4.	ENDANGERED OR THREATENED SPECIES: According to the most current "State and Federal Listed Species and Natural Communities Map", is the project site located within an area identified as a habitat for endangered, threatened or special concern species? ☐ Yes ☐ No Date of Map: June 2014
	If yes, complete and submit a <u>Request for NDDB State Listed Species Review Form</u> (DEEP-APP-007) to the address specified on the form. Please note NDDB review generally takes 4 to 6 weeks and may require additional documentation from the registrant.
	A copy of the completed <i>Request for NDDB State Listed Species Review Form</i> and the CT NDDB response <i>must</i> be submitted with this completed registration as Attachment D.
	For more information visit the DEEP website at www.ct.gov/deep/nddbrequest or call the NDDB at 860-424-3011.
5.	AQUIFER PROTECTION AREAS: Is the site located within a mapped Level A or Level B Aquifer Protection Area, as defined in CGS section 22a-354a through 22a-354bb?
	☐ Yes ☑ No If yes , check one: ☐ Level A or ☐ Level B
	If Level A , are any of the <u>regulated activities</u> , as defined in RCSA section 22a-354i-1(34), conducted on this site? Yes No
	If yes , and your business is not already registered with the Aquifer Protection Program, contact the <u>local</u> <u>aquifer protection agent</u> or DEEP to take appropriate actions.
	For more information on the Aquifer Protection Area Program visit the DEEP website at www.ct.gov/deep/aquiferprotection or contact the program at 860-424-3020.
6.	CONSERVATION OR PRESERVATION RESTRICTION: Is the property subject to a conservation or preservation restriction? ☐ Yes ☐ No
	If Yes, proof of written notice of this registration to the holder of such restriction or a letter from the holder of such restriction verifying that this registration is in compliance with the terms of the restriction, must be submitted as Attachment E.
Part	t IV: Construction Activity Details
1.	Proposed Date of Initiation of Activity: 3/7/16
2.	Anticipated Date of Completion: 6/6/17
3.	Name of the wetland or watercourse involved with or adjacent to the subject activity:
	Shetucket River
4.	Is the subject activity within a watercourse or floodplain? ☐ Yes ☐ No
5.	Will the subject activity be within a FEMA floodway? ☐ Yes ☐ No
6.	If the project requires a Flood Management Certification for the subject activity, provide the Flood
	Management Certification Number: FM-201503316

Part IV: Construction Activity Details (continued)

7.	Disturbance to wetlands, waterco	ourses and flood plains:				
	Wetlands (acres):					
	excavation:	fill: 0.044	total disturbance: 0.044 (See Attachment)			
	Floodplain (cubic yards):					
	excavation: 2442.4	fill: 2390.6	net: 51.8			
	Watercourse (linear feet): 490					
8.	Describe the present and intende and the reason for conducting or		hich the subject activity will be conducted			
	The Connecticut Department of Transportation has been in process of completing design for the project to improve the exisiting maintenance facility. The purpose of this project is to replace a functionally obsolete facility.					
	All contaminated soils will be t treatment/recycling/disposal fa		d of at an approved			
9.	Describe all natural and manmade features impacted by the subject activity, including wetlands, watercourses, fish and wildlife habitat, floodplains, and structures and appurtenances thereto, and the impact of the subject activity on such features.					
	One regulated area (0.044 acres) is located within the project limits that will be affected by proposed improvements. The isolated wetland area is contained within floodplain and has no measurable stogare capacity. Watecourse currently conveyed through existing drainage system and will be maintained through the proposed drainage system after construction is completed.					
	Check here if additional sheets a	re necessary, and label and a	attach them to this sheet.			

Part V: Supporting Documents

Check the applicable box below for each attachment being submitted with this request. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name as indicated on this request. *In order to file electronically, ALL supporting documents must be submitted in an electronic format on a CD with this original completed application in hard copy.*

Attachment A:	Location Map: A depiction, on an 8.5" x 11" copy of the relevant portion of the most recent version of the United States Geologic Survey topographic map (Scale 1:24,000), of the exact location of the property at which such activity will be conducted.
Attachment B:	Site plan pursuant Section 4(c) (2) (I) of the subject general permit.
Attachment C:	Coastal Consistency Review Form (DEEP-APP-004), if applicable.
	Copy of the completed <i>Request for NDDB State Listed Species Review Form</i> (DEEP-APP-007) and the NDDB response, if applicable.
Attachment E:	Conservation or Preservation Restriction Information, if applicable.
	A copy of the Category 2 approval letter from the Army Corps of Engineers, or a copy of the Appendix 1A: Category 1 Certification Form filed with the US Army Corps of Engineers, if applicable.
Attachment G:	Drainage Maintenance Plan, Trail Maintenance Plan, Boat Launch Maintenance Plan, or Beach Maintenance Plan for Inland Beaches as defined in Section 2 of the subject general permit, if applicable.
Attachment H:	Other information provided by requester (list): Site Photos and copy of FMC approval

Part VI: Requester Certification

The requester *and* the individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided. If the requester is the preparer, please mark N/A in the spaces provided for the preparer.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I certify that this general permit request for authorization is on complete and accurate forms as prescribed by the commissioner without alteration of the text. I understand that the subject activity is authorized only on or after the date the commissioner issues a written approval of registration with respect to such activity. I certify that a complete copy of this request for authorization, including all documents attached thereto, was sent by regular or certified mail or was hand delivered to the municipal wetlands agency, zoning commission, planning commission or combined planning and zoning commission, and conservation commission of each municipality which is or may be affected by the subject activity. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes. and in accordance with any other applicable statute." Thomas J. Maziarz Trans. Planning Director Name of Requester (print or type) Title (if applicable) Signature of Preparer (if different than above) John W. Waleszczyk Trans. Supervising Engineer Name of Preparer (print or type) Title (if applicable) Check here if additional signatures are required. If so, please reproduce this sheet and attach signed copies to this sheet. You must include signatures of any person preparing any report or parts thereof required in this registration (i.e., professional engineers, surveyors, soil scientists, consultants, etc.)

Note: Please submit this completed Request for Authorization, Fee, and all Supporting Documents to:

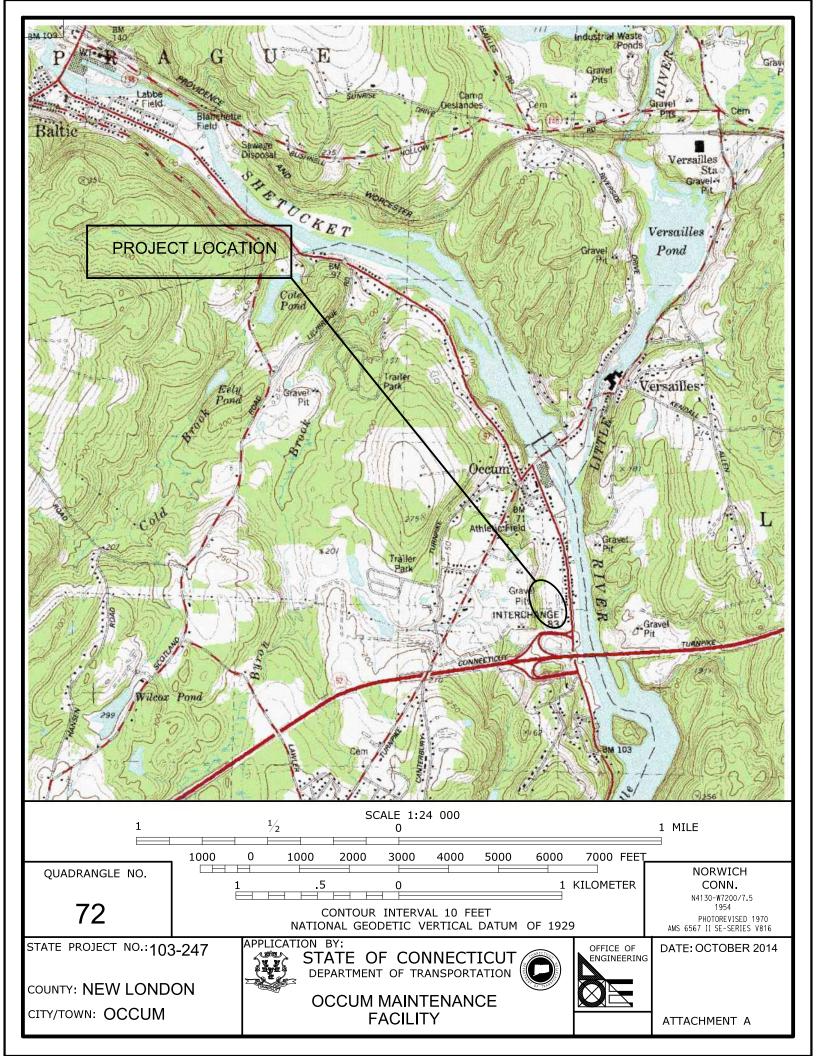
CENTRAL PERMIT PROCESSING UNIT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION 79 ELM STREET HARTFORD, CT 06106-5127

You must submit a complete copy of this completed request for authorization, including supporting documents, to the municipal wetlands agency, zoning commission, planning commission or combined planning and zoning commission, and conservation commission of each municipality which is or may be affected by the subject activity.

Attachment A

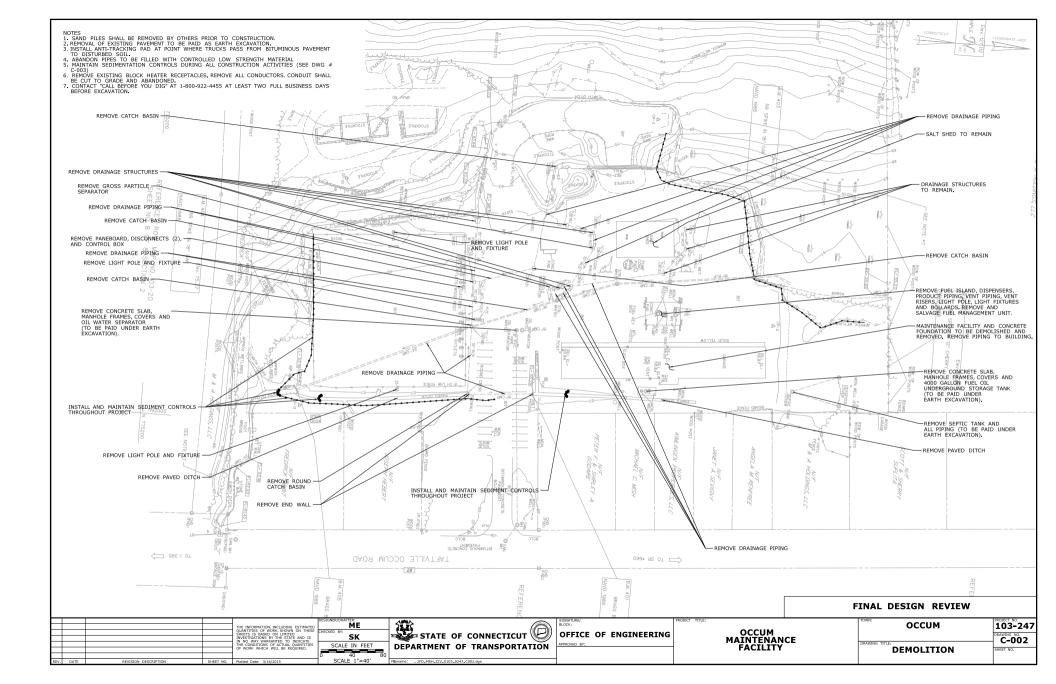
Location Map

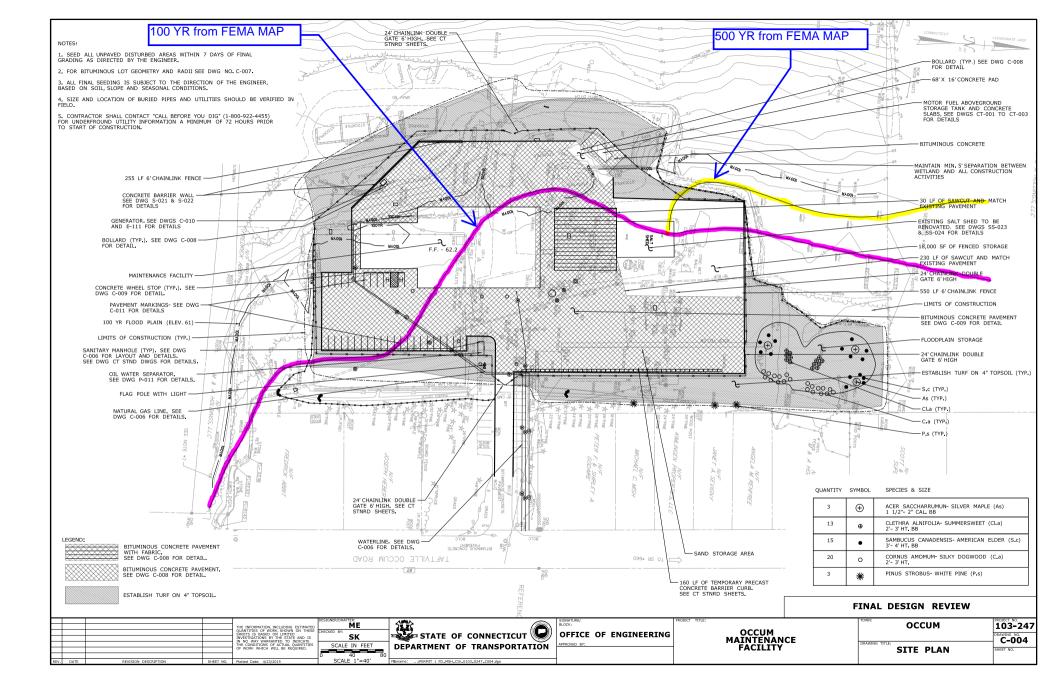
State Project No. 103-247

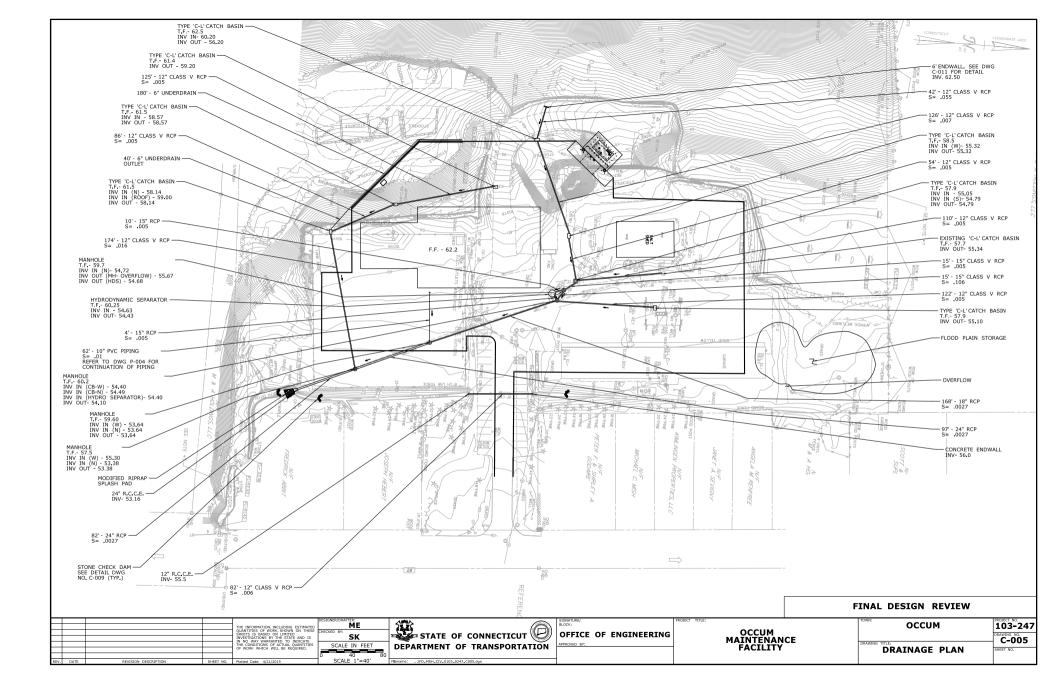


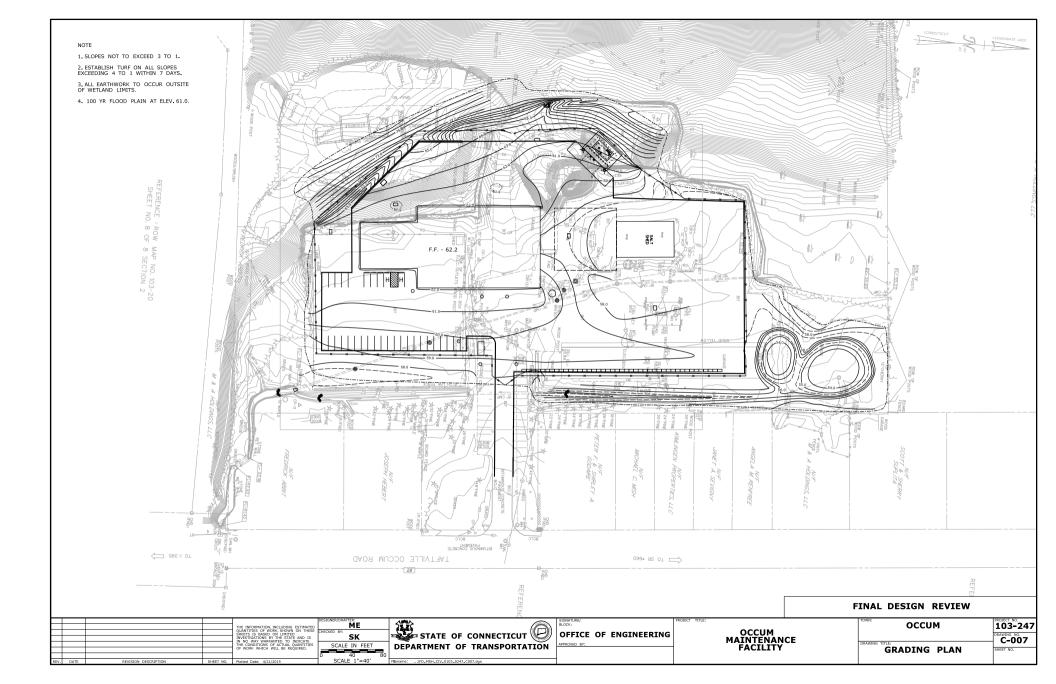
Attachment B

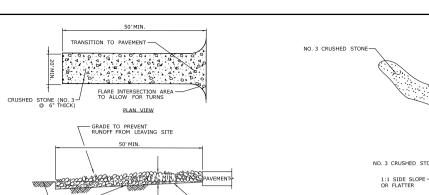
Plan Sheets State Project No. 103-247











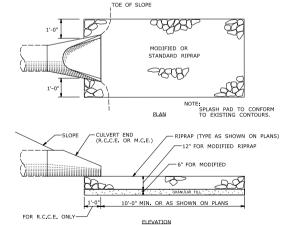
GEOTEXTILE (SEPARATION, HIGH OR MEDIUM SURVIVABILITY)

PROFILE ANTI-TRACKING PAD

NOTE:

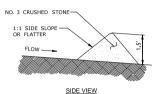
EXISTING GRADE

- LOCATION TO BE APPROVED BY ENGINEER
 ADJACENT PAVED ACCESS TO BE CLEANED ONCE A DAY.
 MUD MUST BE REMOVED FROM ALL CONSTRUCTION VEHICLES BEFORE ENTERING PUBLIC ROADS.
- 4. PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP SEDIMENT BEFORE IT IS CARRIED OFF-SITE.



SPLASH PAD DETAIL (CULVERT END)

NOT TO SCALE



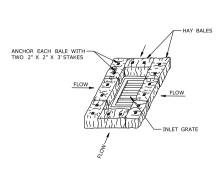
FLOW

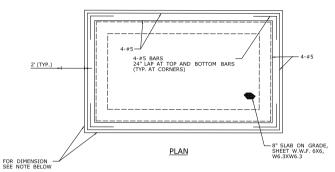
TOP VIEW

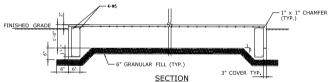
NOTES:

- 1. STONE CHECK DAM SHALL EXTEND THE FULL WIDTH OF THE BASIN, PLUS 18 INCHES KEYED INTO THE BANKS ON EACH SIDE.
- 2. THE HEIGHT OF THE CENTER OF THE CHECK DAM SHALL BE 6 INCHES LOWER THAN THE HEIGHT OF THE OUTER EDGES.

STONE CHECK DAM







NOTE:

1. GENERATOR PAD TO BE 4.6'X 14.2'. REFER TO DWG C-004
AND C-008 FOR PAD LOCATION.

2. CONCRETE SHALL BE CLASS F. REINFORCING SHALL BE
EPOXY COATED ASTM A615 GRADE 60.

CONCRETE PAD

FINAL DESIGN REVIEW

HAY BALE INSTALLATION AT CATCH BASIN

STATE OF CONNECTICUT ME OCCUM 103-247 THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. OCCUM MAINTENANCE OFFICE OF ENGINEERING SK C-010 DEPARTMENT OF TRANSPORTATION **FACILITY** MISCELLANEOUS SCALE AS NOTED DETAILS - 2



ABBREVIATIONS

AST ABOVEGROUND STORAGE TANK

© CENTER LINE

dia DIAMETER

ELEV. ELEVATION EWT&B EACH WAY TOP & BOTTOM

FMU FUEL MANAGEMENT UNIT

HMA HOT MIX ASPHALT

I.d. INSIDE DIAMETER

LF LINEAR FEET

MAX MAXIMUM

MIN MINIMUM

NO. NUMBER

o.c. ON CENTER o.d. OUTSIDE DIAMETER

RGSC RIGID GALVANIZED STEEL CONDUIT

TYP TYPICAL

UST UNDERGROUND STORAGE TANK

W/ WITH

- 24" MANWAY W/ 8" EMERGENCY VENT - 4" NIPPLE FOR IN-TANK PROBE 2" NIPPLE FOR THERMAL PRESSURE RELIEF - SUBMERSIBLE PUMP WITH 4" NIPPLE, REFER TO DWG CT-002 FOR SUBMERSIBLE PUMP DETAIL -8000 GALLON DIESEL TANK (23'-1" X 8'-0" X 8'-93/4") 26'-0" 0 0 0 0 \circ 0 - 4" SPARE NIPPLE 0 FILL ASSEMBLY W/ SPILL CONTAINMENT, REFER TO DETAIL ON DWG CT-002 - REINFORCED CONCRETE SLAB (26'-0" X 13'-0"), REFER TO DWG CT-002 5'-4" (TYP) 4'-0" TANK MANUFACTURER STANDARD GALVANIZED STEEL (⊕) FUEL MANAGEMENT UNIT (FMU), REFER TO DETAIL ON DWG CT-003 FOR CONDUIT ARRANGEMENT 1'-0" MIN -METAL BEAM RAIL POSTS TO SUPPORT PRODUCT PIPING (TYP), MINIMUM EVERY 8' OF HORIZONTAL PIPING RUN 13'-0" $-1\frac{1}{2}$ " PRIMARY PRODUCT PIPING TO DISPENSER (TYP) - ISLAND LIGHT POLE, REFER TO DWG E-902 FOR DETAIL --------0 1'-6" 2'-6" (TYP) 2'-0" 1'-0" (TYP) O 2'-0" CT-003 0 O_{3'-6" (TYP)} - ISLAND FORM AND CONCRETE PAD SIZED AT LEAST 4" LARGER THAN EQUIPMENT BASE (TYP FOR DISPENSERS AND FMU) 1'-0" (TYP) 1'-0" (TYP) - HIGH FLOW DIESEL FUEL DISPENSER - 10" REINFORCED CONCRETE APRON (68'-0" X 16'-0") W/ #6 REBARS 12" o.c. EWT&B -EXPANSION JOINT, TYP 2 FOR APRON 68'-0" - DIESEL FUEL DISPENSER

- 2" NIPPLE FOR GALVANIZED STEEL VENT RISER - 8" PIPE BOLLARD (TYP 32), REFER TO DETAIL ON

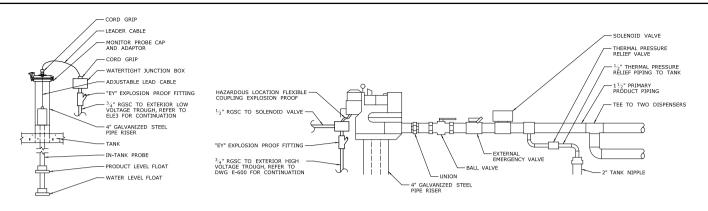
NOTES:

- P PRIMARY PRODUCT PIPING
- THE DESIGNED TANK DIMENSIONS AND SUPPORT LEG LOCATIONS ARE BASED ON CONVAULT ACTUAL SLAB DIMENSIONS SHALL BE SIZED BASED ON THE APPROVED TANK DIMENSIONS AND SUPPORT LEG LOCATIONS.

16'-0"

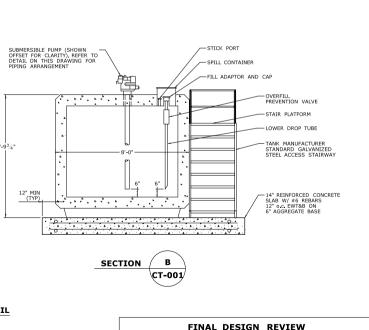
- 2. THE TANK NIPPLE ARRANGEMENT IS BASED ON CONVAULT TANKS. ACTUAL TANK NIPPLE ARRANGEMENT SHALL BE DESIGNED AS NECESSARY BASED ON THE APPROVED TANK MANUFACTURER.
- 3. REFER TO DWG CT-002 FOR MOTOR FUEL TANK AND DWG CT-003 FOR MOTOR FUEL ISLAND DETAILS.
- 4. INSTALL SALVAGED STATION SIGNS TO FENCE AS DIRECTED BY ENGINEER.
- SUPPORT PRODUCT PIPING WITH GALVANIZED STRUT MAST AND PIPE CLAMP MOUNTED TO THE TANK, TANK PAD, AND METAL BEAM RAIL POSTS.

F	ŧ			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS	NAR CHECKED BY: JAB	STATE OF CONNECTICUT	OFFICE OF ENGINEERING	MAINTENANCE FACILITY REHABILITATION		103-247 DRAWING NO CT-001
E	ŧ			IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	SCALE 1/4" = 1'-0"	DEPARTMENT OF TRANSPORTATION	APPROVED BY:	REHABILITATION	MOTOR FUEL	SHEET NO.
R	v. c	DATE	REVISION DESCRIPTION SHEET NO.	Plotted Date: 3/17/2015	30,62 1) 1 0	Filename:\FD_MSH_CIV_0103_0247_CT001.dgn			ISLAND PLAN	



IN-TANK PROBE DETAIL

SUBMERSIBLE PUMP DETAIL



NOTES:

THE DESIGNED TANK DIMENSIONS AND SUPPORT LEG LOCATIONS ARE

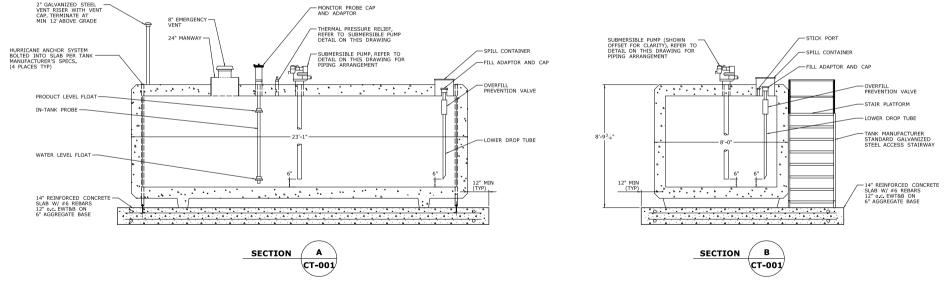
ON THE APPROVED TANK DIMENSIONS AND SUPPORT LEG LOCATIONS.

THE TANK NIPPLE ARRANGEMENT IS BASED ON CONVAULT TANKS. ACTUAL TANK NIPPLE ARRANGEMENT SHALL BE DESIGNED AS NECESSARY

ALL CONDUITS SHALL BE PROVIDED WITH EXPLOSION PROOF FITTINGS AND SEALED AS REQUIRED IN ACCORDANCE WITH NEPA 70.

BASED ON THE APPROVED TANK MANUFACTURER.

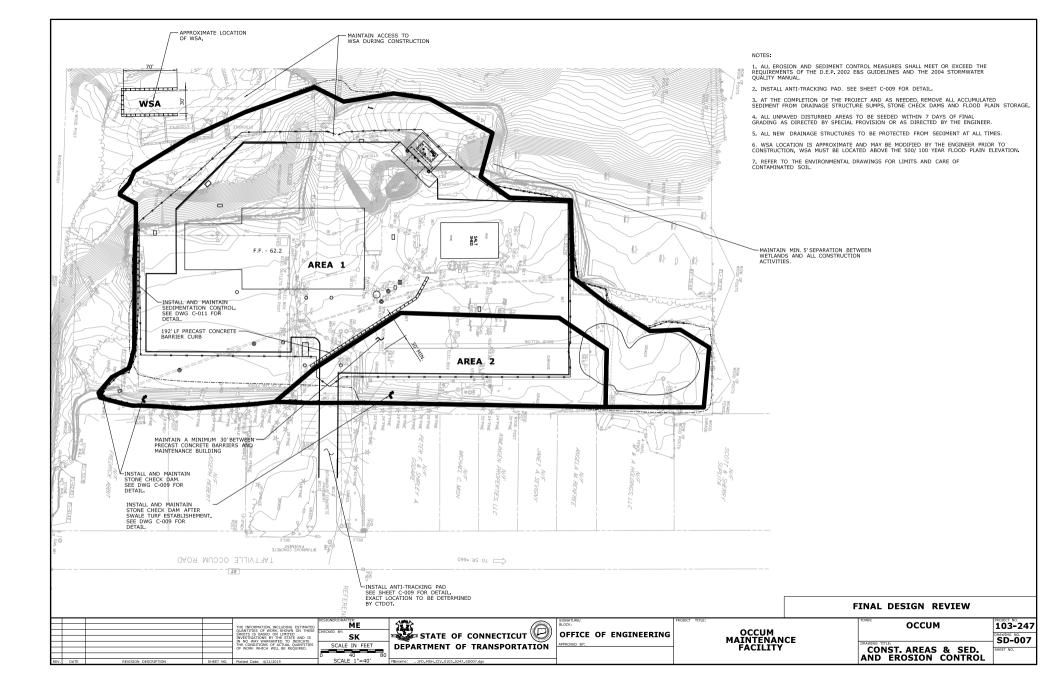
BASED ON CONVAULT ACTUAL SLAB DIMENSIONS SHALL BE SIZED BASED

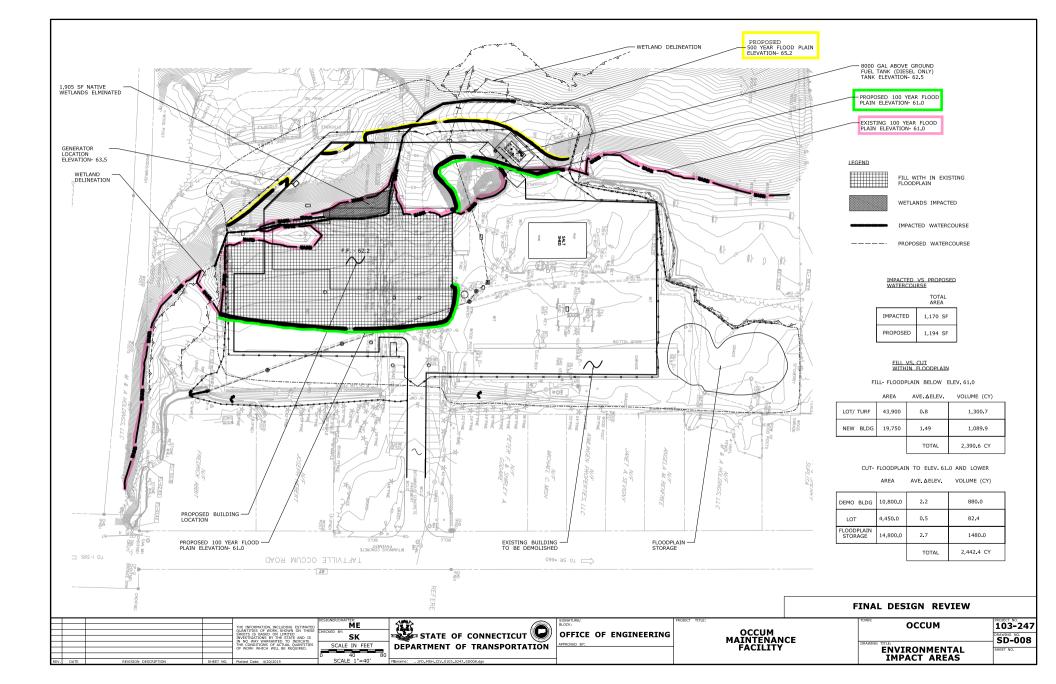


MOTOR FUEL ABOVEGROUND STORAGE TANK DETAIL

FINAL DESIGN REVIEW

			THE INFORMATION, INCLUDING ESTIMATED	NAR		SIGNATURE/ BLOCK:	PROJECT TITLE:	OCCUM	103-247
þ			SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL UNDIVISES	JAB	JANE OF COMMECTICO	OFFICE OF ENGINEERING	OCCUM MAINTENANCE FACILITY	DRAWING TITLE:	CT-002
F			OF WORK WHICH WILL BE REQUIRED.	NOT TO SCALE	DEPARTMENT OF TRANSPORTATION	APPROVED BY.		MOTOR FUEL TANK DETAILS	SHEET NO.
	v. DATE	REVISION DESCRIPTION SHEET I	O. Plotted Date: 3/18/2015		Filename:\FD_MSH_CIV_0103_0247_CT002.dgn			TANK DETAILS	





1. THE DESIGNED TANK DIMENSIONS ARE BASED ON CONTAINMENT SOLUTIONS. ACTUAL PAD DIMENSIONS SHALL BE SIZED BASED ON THE APPROVED TANK DIMENSIONS. THE MANHOLE ARRANGEMENT IS BASED ON CONTAINMENT SOLUTIONS TANKS, ACTUAL MANHOLE ARRANGEMENT SHALL BE REDESIGNED AS NECESSARY BASED ON THE APPROVED TANK MANUFACTURER ALL CONDUITS SHALL BE PROVIDED WITH EXPLOSIONPROOF FITTINGS AND SEALED AS REQUIRED IN ACCORDANCE WITH NFPA 70. CORD GRIP L8" dia MANHOLE WATERTIGHT JUNCTION BOX FRAME AND COVER RGSC SHALL BE USED FOR THE FIRST 2'OF THE CONDUIT RUN FROM TANK SUMPS AND TRANSITION TO SCHEDULE 80 PVC. - CORD GRIP MONITOR PROBE - WATERTICHT CAP AND ADAPTOR JUNCTION BOX 5. ALLOW SLACK AT TANK IN ALL PIPING FOR SETTLING OF TANK. "EY" EXPLOSION PROOF FITTING "EY" EXPLOSION NOTE: IN-TANK PROBE MOUNTS IN SUMP WITH FILL RISER 6. REFER TO PLAN E-602 FOR TANK MONITORING SYSTEM BLOCK DIAGRAM. PROOF FITTING ADILISTABLE 7. REFER TO PLAN M-008 FOR PIPING AND CONDUIT ORIENTATIONS LEAD CABLE 4" STEEL PIPE RISER - 3/4" RIGID STEEL CONDUIT LEAD CABLE WITH CORD GRIPS RISER PIPE CAP ADJUSTABLE LEAD CABLE POSTONICO 4" PVC PIPE RISER DOUBLE-WALL TANK WATERTIGHT JUNCTION BOX (AS REQUIRED) "EY" EXPLOSION PROOF - HYDROSTATIC SENSOR FITTING (AS REQUIRED) NOTE: DISCRIMINATING SUMP IN-TANK PROBE RESERVOIR SENSORS MOUNT IN PIPING SUMP AND FILL/IN-TANK PROBE SUMP 3/4" RGSC (AS REQUIRED) PRODUCT LEVEL FLOAT DISCRIMINATING TYPE SUMP SENSOR WITH UNIVERSAL MOUNTING BRACKET BRINE LEVEL WATER LEVEL FLOAT DOUBLE-WALL TANK DOUBLE-WALL TANK HYDROSTATIC SENSOR DETAIL IN-TANK PROBE DETAIL TYPICAL DISCRIMINATING SUMP SENSOR DETAIL 40" dia SINGLE-PORT SPILL CONTAINMENT MANHOLE FOR FILL, WITH GAUGE PORT AND 5-GALLON SPILL CONTAINER 2" GALV STEEL RISER WITH VENT CAP SUPPORTED ON 3" GALV STEEL POLE-FASTENED BY STRUT CHANNEL. TERMINATE 3' ABOVE ROOF, REFER TO 4" STEEL FILL PIPE RISER WITH DRAWING NO. M-003 FOR VENT RISER LOCATION ADJACENT TO BUILDING. SWIVEL ADAPTOR AND TOP SEAL FILL CAP, 6" MAX BELOW GRADE -36" dia MANHOLE FRAME AND COVER 42" dia CONTAINMENT 18" dia MANHOLE FRAME -2" FIBERGLASS ADAPTOR SUMP WITH TOP 8" HANDHOLE -#6612 EVITAB REINFORCEMENT #6612 EVITAB REINFORCEMENT #608 COREFTE SLAB (TVP) # ACCESS PIPE CONTINUOUS BITUMINOUS CONCRETE ESTABLISHED HYDROSTATIC WITH OPEN TOP FIBERGLASS REINFORCED TYP FIBERGLASS REINI EPOXY VENT PIPE POXY VENT PIPE 4" DROP TUBE WITH OVERFILL PREVENTION VALVE PEASTONE GRAVEL PEASTONE GRAVE. PEASTONE GRAVE. PEASTONE GRAVE. WITH FITTINGS 16' ON CENTAGE WITH FITTINGS 1 4" ACCESS PIPE CONTINUOUS TO MECHANICAL ROOM (TYP 2), REFER TO DRAWTING NO. M-008 FOR FUEL OIL PIPING DETAILS FLEXIBLE CONNECTOR 4" PVC (SLOTTED) SNIFF TUBE (2 PLACES) 3/4" FUEL OIL SUCTION AND RETURN AND SPARE LINES, REFER TO DRAWING NO. M-008 FOR FUEL OIL PIPING DETAILS DISCRIMINATING SUMP SENSOR DEFLECTOR PLATES REQUIRED UNDER ALL OPENINGS IN-TANK PROBE - 42" dia CONTAINMENT COLLAR - DISCRIMINATING SUMP SENSOR ANCHOR STRAP WITH TURNBUCKLE AND HOOKED ANCHOR 12" FROM EACH END. PROVIDE ANCHOR STRAPS PER MANUFACTURERS RECOMMENDATIONS. PRODUCT LEVEL FLOAT - 2" VENT PIPE WITH FLEXIBLE CONNECTO WATER LEVEL FLOAT DEFLECTOR PLATES REQUIRED UNDER ALL OPENINGS 4 ADDITIONAL #4 T&B @ ANCHOR LOCATIONS TYPICAL 2 PLACES BRINE FILLED ANNULAR SPACE LOCATIONS TYPICAL 2 FLACES 8" PVC (SLOTTED) EMBEDDED SNIFF TUBE ANCHORAGE THROUGH SLAB (2 PLACES). SNIFF TUBE TO BE HELD IN PLACE WHILE BACKFILLING. 4 ADDITIONAL #4 T&B @ ANCHOR LOCATIONS TYPICAL 2 PLACES #4 @ 12" EWT&B REINFORCEMENT_FOR_CONCRETE - 24" · TYP -FILTER FABRIC FILTER FABRIC SECTION Α SECTION В M-008/ M-008 2000 GALLON DOUBLE WALL FUEL OIL TANK DETAIL FINAL DESIGN REVIEW STATE OF CONNECTICUT NAR **NORWICH** 103-247 THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. OCCUM MAINTENANCE OFFICE OF ENGINEERING JSB M-007 DEPARTMENT OF TRANSPORTATION **FACILITY FUEL OIL TANK**

DETAILS

NOT TO SCALE

Attachment D

NDDB response State Project No. 103-247



November 17, 2014

Michael Salter State Of Connecticut Department Of Transportation 2800 Berlin Tpke. Newington, CT 06131 michael.salter@ct.gov

Project: Facility Renovations at Occum Maintenance Facility Located at 122 Taftville-Occum Road in

Norwich

NDDB Determination No.: 201410848

Dear Michael Salter,

I have reviewed Natural Diversity Data Base (NDDB) maps and files regarding the area delineated on the map provided for the proposed Facility Renovations at Occum Maintenance Facility Located at 122 Taftville-Occum Road in Norwich, Connecticut. I do not anticipate negative impacts to State-listed species (RCSA Sec. 26-306) resulting from your proposed activity at the site based upon the information contained within the NDDB. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits. This determination is good for one year. Please re-submit an NDDB Request for Review if the scope of work changes or if work has not begun on this project by November 17, 2015.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available.

Please contact me if you have further questions at (860) 424-3592, or $\underline{\text{dawn.mckay@ct.gov}}$. Thank you for consulting the Natural Diversity Data Base.

Sincerely,

Dawn M. McKay

Dawn M. mokay

Environmental Analyst 3

Natural Diversity Data Base Lebanon Areas

NORWICH, CT

June 2014

State and Federal Listed Species & Significant Natural Communities



NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDB) from a number of data sources. Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDDB along with the required maps and information. More detailed instructions are provided with the request form on our website.

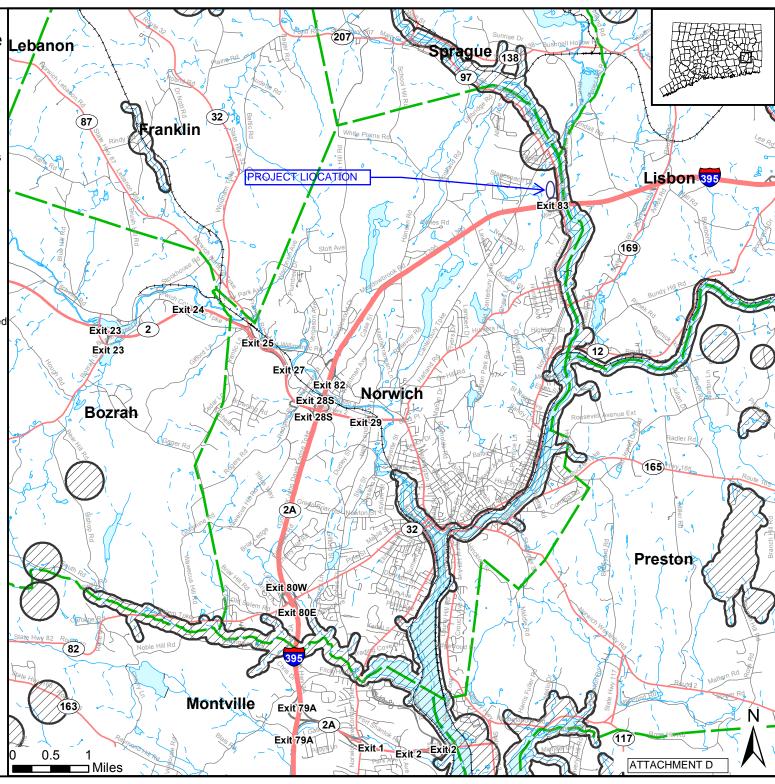
www.ct.gov/deep/nddbrequest

This file has PDF Layers. Look for the Layers tab on the left. Expand the layers and use the "eye" icons to change visibility.

QUESTIONS: Department of Energy and Environmental Protection (DEEP) 79 Elm St., Hartford CT 06106 Phone (860) 424-3011



Connecticut Department of Energy & Environmental Protection Bureau of Natural Resources Wildlife Division



Attachment F

Category 1 Certification Form filed with US Army Corps of Engineers

State Project No. 103-247

US Army Corps of Engineers ®

Appendix 1A: Category 1 Certification Form (Required for all Inland Projects in Connecticut)

Submit this form before work commences to the following addresses:

New England District U.S. Army Corps of Engineers, Permits & Enforcement Branch B (CT), 696 Virginia Road, Concord, MA 01742-2751

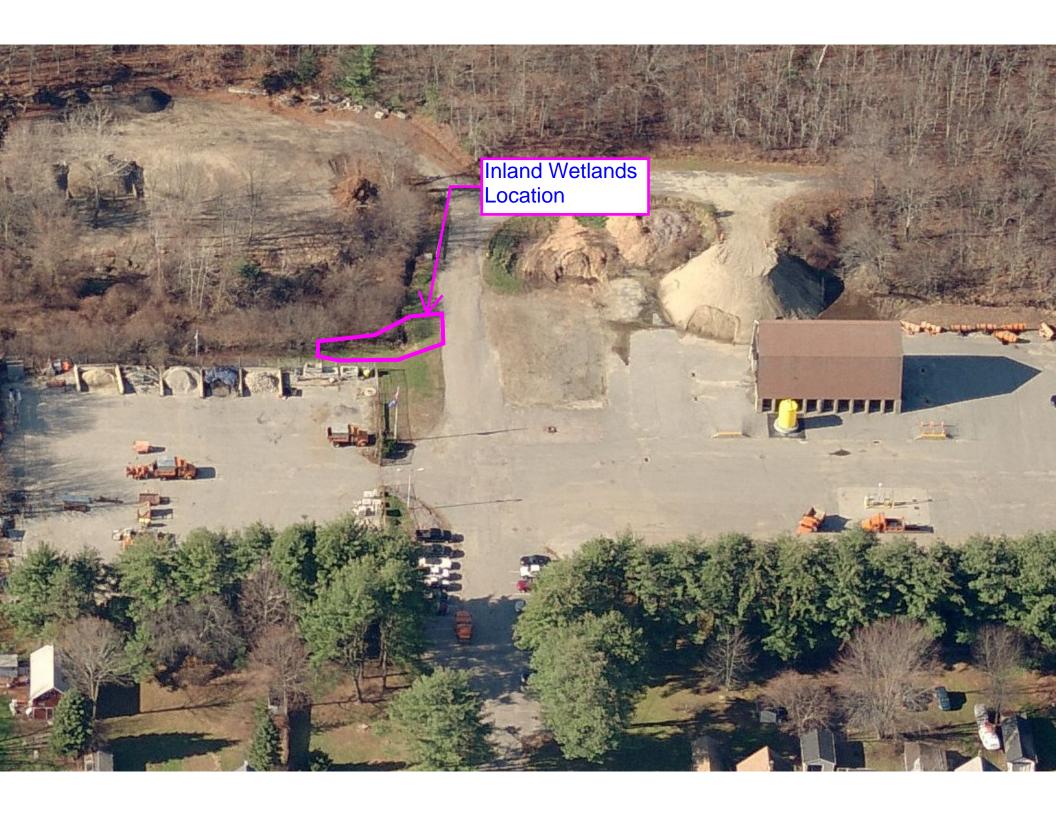
Connecticut Department of Energy & Environmental Protection, CT DEEP, Inland Water Resources Division, 79 Elm Street, Hartford, CT 06106-5127 (not required if work is done within exterior boundaries of Mashantucket)

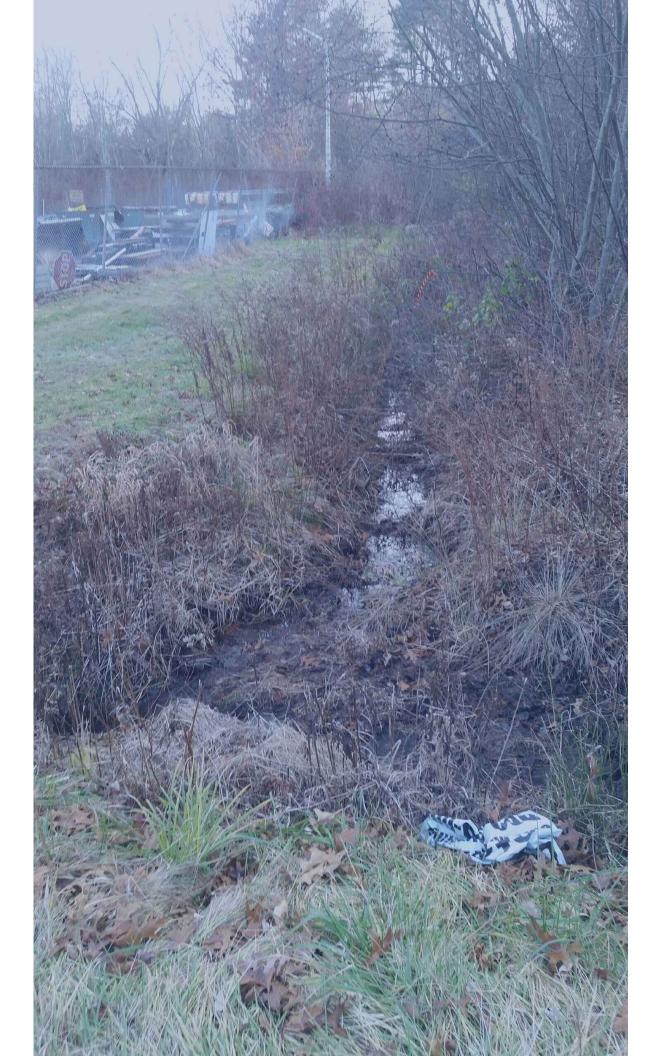
Permittee Name & Add	dress: Connecticut De	partment of Transportation
Phone number & Email	address: 860.594.2931	mark.w.alexander@ct.gov
Work Location/Address		
Latitude/Longitude coor	dinates: N 41°35'17", W	/ 72°02'56"
Waterway name:		
	ddress: To be determine	ned by Low Bid process
Phone number & Email		
Proposed Work Dates:	Start: 3/2016	Finish: 7/2017
Work will be done with	ain Inland Waters & V	<u> Vetlands under the following categories – refer</u>
to Appendix 1 (check	all that apply):	
X 1.A. New Fill at	nd/or Fill Associated wi	th Excavation
1.B. Stream Bar	k Stabilization	
		Authorized or Grandfathered Fill.
		way impact: 1170 sf and or 490 linear feet
facility and renovation of the	existing salt shed at 125 Taf in 1,905sf of permanent	e replacement of the existing maintenance itville Occum Road in the Occum section of Norwich. wetland impact and 1,170sf of temporary ility.
		impacts to inland waters or wetlands drained,
		from a single and complete project. See General
Condition 3.		npacts? YN-If yes, please describe them:
Your signature below, terms, eligibility criter Permit.	as permittee, indicate ia, and general condit	s that you accept and agree to comply with the ions of Category 1 of this Connecticut General
Permittee Signature: _	Thomas?) Mysin Date: 10-16-2015

Attachment H

Site Photos
Copy of FMC approval
Project Managers Meeting (DOT/DEEP/ACOE/EPA) Notes –
November 20, 2014

State Project No. 103-247







79 Elm Street • Hartford, CT 06106-5127

www.ct.gov/deep

Affirmative Action/Equal Opportunity Employer

FLOOD MANAGEMENT

Connecticut Department of Transportation 2800 Berlin Turnpike P.O. Box 317546 Newington, CT 06131-7546

Attn: Thomas J. Maziarz, Bureau Chief, Policy & Planning

Re: Approval of Certification & Exemption Request

FM-201503316

Occum Maintenance Facility

Norwich, CT

Dear Mr. Maziarz:

The Inland Water Resources Division of the Department of Energy & Environmental Protection has reviewed the flood management certification application and exemption request prepared by John W. Waleszczyk of Connecticut Department of Transportation, and signed by Thomas J. Maziarz of the Connecticut Department of Transportation ("Certifying Agency").

The certification and exemption request submitted on May 12, 2015 states that the proposed activity has been designed in compliance with the requirements of Section 25-68d(b) of the Connecticut General Statutes (CGS) and Section 25-68h-1 through 25-68h-3 of the Regulations of Connecticut State Agencies (RCSA) with the exception of Section 25-68(h)(2), Subsection(d)(1) of the RCSA.

Specifically, an exemption is requested from the provisions of Section 25-68h-2(d)(1) of the Regulations of Connecticut State Agencies (RCSA). RCSA Section 25-68h-2(d)(1) prohibits the storage of materials that are buoyant, hazardous, flammable, explosive, soluble, expansive radioactive or which could be injurious to human, animal or plant life is prohibited below the elevation of the base flood for a critical activity.

The project consists of the replacement of underground fuel storage tanks and installation of an aboveground diesel fuel storage tank located in the City of Norwich, as shown on plans entitled, "Occum Maintenance Facilities State Project # 103-247," submitted with the application on May 12, 2015, and prepared by the Connecticut Department of Transportation Office of Engineering. The project is located within the 500-yr FEMA floodplain of Shetucket River.

The agency has determined that while the fuel tanks for the emergency generators are not elevated above the 500-year flood elevation, it is not possible to do so without compromising access to them during emergency events. In addition, the agency has determined that the activity is in the public interest, will not injure persons or damage property in the area of such activity or critical activity, and complies with the provisions of the National Flood Insurance Program.

Connecticut Department of Transportation Occum Maintenance Facility, Norwich, CT FM-201503316 Page 2 of 3

Therefore, in accordance with CGS Section 25-68d(b) & (d), your request for approval of the above referenced certification and exemption request from RCSA Section 25-68h-2(d)(1) hereby is granted with the following conditions:

Special Conditions:

None

Operating Conditions:

- 1. This approval shall expire ten years after issuance or if the construction of any structures or facilities authorized herein is not commenced within three years of issuance of this approval.
- 2. The Certifying Agency may not make any alterations, except de minimis alterations, to any structure, facility, or activity authorized by this certification unless the Certifying Agency applies for and receives a modification of this certification. A de minimis alteration means a change in the design or operation of the authorized permit that does not increase its adverse environmental or other regulatory impacts.
- 3. In constructing or maintaining any structure or facility or conducting any activity authorized herein, or in removing any such structure or facility, the Certifying Agency shall employ best management practices to control storm water discharges, to prevent erosion and sedimentation, and to otherwise prevent pollution of wetlands and other waters of the State. The Certifying Agency shall immediately inform the Commissioner of any adverse impact or hazard to the environment which occurs or is likely to occur as the direct result of the construction, maintenance, or conduct of structures, facilities, or activities authorized herein. Best Management Practices include, but are not limited, to practices identified in the Connecticut Guidelines for Soil Erosion and Sediment Control as revised, 2004 Connecticut Stormwater Quality Manual, Department of Transportation's ConnDOT Drainage Manual as revised, and the Department of Transportation Standard Specifications as revised.
- 4. All temporary structures, cofferdams, and fill shall not impede the movement of flood flows and shall be removed at the completion of their use. The design of such temporary structure, cofferdams and fill shall be based on the DOT Drainage Manual, where applicable. All temporary and permanent fill shall be clean and free of stumps, rubbish, hazardous and toxic material.
- 5. The Certifying Agency shall cause equipment and materials to be removed from the floodplain during periods when flood warnings have been issued or are anticipated by a responsible federal, state or local agency. It shall be the Certifying Agency's responsibility to obtain such warnings when flooding is anticipated.

This authorization is subject to and does not derogate any present or future property rights or other rights or powers of the State of Connecticut, conveys no property rights in real estate or material nor any exclusive privileges, and is further subject to any and all public and private rights and to any federal, state, or local laws or regulations pertinent to the property or activity affected thereby. No

Connecticut Department of Transportation Occum Maintenance Facility, Norwich, CT FM-201503316 Page 3 of 3

revisions or alterations to the approved plans are allowed without first obtaining written approval from this Division of such alterations.

If there are any questions, contact Krystyna Krudysz of the Inland Water Resources Division at 860-418-5942.

Sincerely,

October 9, 2015

Date

Michael Sullivan

Deputy Commissioner

CAC/KK

cc: Mark W. Alexander, Transportation Assistant Planning Director Svetlana Kaminsky, DOT



DEEP / DOT REGULATORY COORDINATION



Project Meeting Notes

DOT Project Number: 103-247

Project Description: Occum Maintenance Facility

Town (s): Occum

Meeting Date (s): 11/20/2014 Fisheries Correspondence Status: NDDB Correspondence Status:

Department Priority:

Current FDP:

DOT Design Contact: Svetlana Kaminsky/ Matt Easdon

Project Purpose & Need:

Meeting Date #1: - November 20, 2014

Transactions and Determinations:

- This project consists of the Occum Maintenance Facility replacement.
- The existing fuel island will also be replaced.
- This will require 2,390 cubic yards of fill in the 100 year floodplain.
- 2,440 cubic yards of flood storage capacity will be created by the construction of a Retention Basin.
- The fill in the floodplain is a critical activity because of the motor fuel tank. The fuel dispenser is within the 500 year floodplain elevation.
- Wetland impacts 3,600 square feet.
- The retention basin, which is located in the 100 year flood plain will be designed as a rain garden, if possible, and this will count as mitigation for the project.
- The permits for this project will require a FMC Exemption, IW GP, and an ACOE CAT 1.

Agency comments:

Commitments Reached:

Transactions and Determinations:

Permit needs: